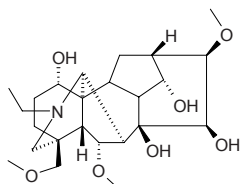


## **Volume 4    Isolated Compounds (N-S)**

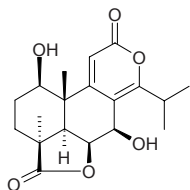
## N

**15228 Nagarine**

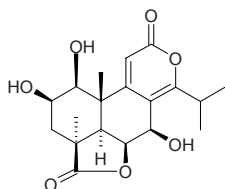
15-Episenbusine C; 15-Epifuziline; Crassicaulisine; 3-Deoxycrassicaulidine; Bullatine F [80665-73-2]  $C_{24}H_{39}NO_7$  (453.58). Crystals ( $Me_2CO$ ), mp 190~191°C,  $[\alpha]_D^{21} = +20.4^\circ$  ( $c = 0.88$ ,  $CHCl_3$ ). Source: CU JING WU TOU *Aconitum crassicaule*, XIAO BAI CHENG *Aconitum nagarum* var. *heterotrichum* [Syn. *Aconitum bullatifolium*]. Ref: 2595, 2596.

**15229 Nagilactone A**

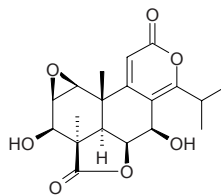
[19891-50-0]  $C_{19}H_{24}O_6$  (348.40). mp 305°C (sub). Pharm: Plant growth regulator (pea, 10  $\mu mol/L$ ). Source: DUO SUI LUO HAN SONG SHI *Podocarpus polystachyus*, FEI LV BIN LUO HAN SONG *Podocarpus philippinensis*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968, the compound was isolated from the plant by Y.Hayahi et al.)<sup>[5505]</sup>. Ref: 5, 658, 1521, 5505.

**15230 Nagilactone B**

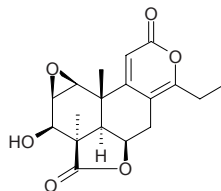
[19891-51-1]  $C_{19}H_{24}O_7$  (364.40). mp 258~261°C (dec). Pharm: Cytotoxic (cultured Kichita sarcoma cells *in vitro*,  $IC_{50} = 1.72 \mu mol/L$ ); plant growth regulator (pea, 10  $\mu mol/L$ ). Source: ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968 the compound was isolated from the plant by Y.Hayahi, et al.)<sup>[5505]</sup>. Ref: 5, 658, 1521, 5505.

**15231 Nagilactone C**

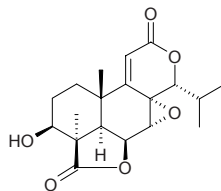
[24338-53-2]  $C_{19}H_{22}O_7$  (362.38). mp 325°C, 290°C (dec). Pharm: Antineoplastic (mus  $P_{388}$ , *in vivo*, 40mg/kg, biotic prolonged rate = 45%); cytotoxic (cultured Kichita sarcoma cells *in vitro*,  $IC_{50} = 2.25 \mu mol/L$ ); larvacide (larva of housefly and apple moth); plant growth regulator (pea, 10  $\mu mol/L$ ). Source: GAO SHAN LUO HAN SONG *Podocarpus nivalis*, HA SHI LUO HAN SONG *Podocarpus hallii*, LUO HAN SONG SHI *Podocarpus macrophyllus*, PU ER DI LUO HAN SONG *Podocarpus purdieana*, YUN WU LUO HAN SONG *Podocarpus nubigenus*, ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968, the compound was isolated from the plant by Y.Hayahi et al.)<sup>[5505]</sup>. Ref: 5, 6, 658, 1521, 5505.

**15232 Nagilactone D**

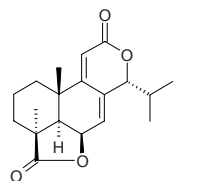
[19891-53-3]  $C_{18}H_{20}O_6$  (332.36). mp 265~266°C (dec). Pharm: Cytotoxic (cultured Kichita sarcoma cells *in vitro*,  $IC_{50} = 0.332 \mu mol/L$ ); pesticide (larva, pupa and adult insect of housefly); plant growth regulator (pea, 10  $\mu mol/L$ ). Source: ZHU BAI *Myrica nagi* [Syn. *Podocarpus nagi*] (in 1968, the compound was isolated from the plant by Y.Hayahi, et al.)<sup>[5505]</sup>. Ref: 5, 658, 1521, 5505.

**15233 Nagilactone E**

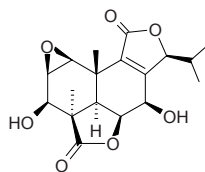
[36895-12-2]  $C_{19}H_{24}O_6$  (348.40). Pharm: Antineoplastic (mus  $P_{388}$ , 20mg/kg, ip); cytotoxic (cultured Kichita sarcoma cells *in vitro*,  $IC_{50} = 3.6 \mu mol/L$ ); pesticide (housefly); plant growth regulator (10~100  $\mu mol/L$ ). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*, *Podocarpus* sp. Ref: 5, 658, 1521.

**15234 Nagilactone F**

[36912-00-2]  $C_{19}H_{24}O_4$  (316.40). Pharm: Cytotoxic (cultural Kichita sarcoma cells *in vitro*); plant growth regulator (10~100  $\mu mol/L$ ). Source: LUO HAN SONG SHI *Podocarpus macrophyllus*. Ref: 5, 6, 658, 1521.

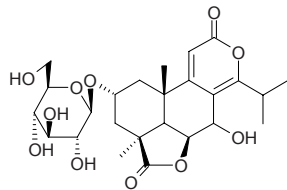
**15235 Nagilactone J**

$C_{18}H_{22}O_7$  (350.37). Needles ( $MeOH$ ), mp 310°C (dec). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 2597.

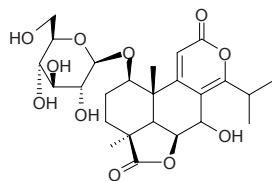


**15236 Nagilactoside A**

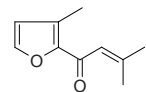
$C_{25}H_{34}O_{11}$  (510.54). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 2598.

**15237 Nagilactoside B**

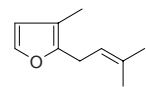
$C_{25}H_{34}O_{11}$  (510.54). Source: ZHU BAI GEN *Myrica nagi* [Syn. *Podocarpus nagi*]. Ref: 2599.

**15238 Naginataketone**

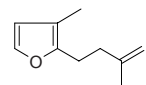
[6138-88-1]  $C_{10}H_{12}O_2$  (164.21). bp 116~119°C/20mmHg. Source: BAN BIAN SU *Elsholtzia ciliata*, HUI HUI SU GENG *Perilla frutescens* var. *crispa*, JIAN ZI SU YE *Perilla frutescens* var. *acuta* [Syn. *Perilla frutescens* var. *purpurascens*]. Ref: 6, 660, 1521.

**15239  $\alpha$ -Naginatene**

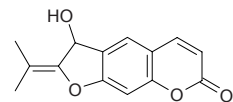
[15186-51-3]  $C_{10}H_{14}O$  (150.22). Source: BAN BIAN SU *Elsholtzia ciliata*. Ref: 6.

**15240  $\beta$ -Naginatene**

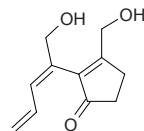
$C_{10}H_{14}O$  (150.22). Source: BAN BIAN SU *Elsholtzia ciliata*. Ref: 6.

**15241 Nakhsmyrin**

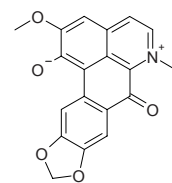
[119617-29-7]  $C_{14}H_{12}O_4$  (244.25). Source: *Smyrniopsis aucheri*. Ref: 2701, 5502.

**15242 Nakienone A**

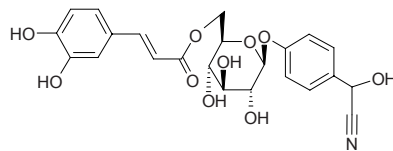
[161407-85-8]  $C_{11}H_{14}O_3$  (194.23). Pharm: Cytotoxic (KB ED<sub>50</sub> = 5 µg/mL, HCT116 ED<sub>50</sub> = 20 µg/mL). Source: *Synechocytis* sp. Ref: 2600.

**15243 Nandazurine**

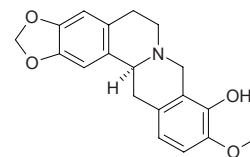
[49679-20-1]  $C_{19}H_{13}NO_5$  (335.32). mp 250~251°C. Source: NAN TIAN ZHU GEN *Nandina domestica*, NAN TIAN ZHU GENG *Nandina domestica*. Ref: 6, 1521.

**15244 Nandinin**

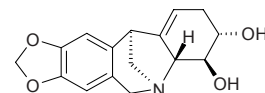
$C_{23}H_{23}NO_{10}$  (473.44). Source: NAN TIAN ZHU YE *Nandina domestica*. Ref: 2602.

**15245 Nandinine**

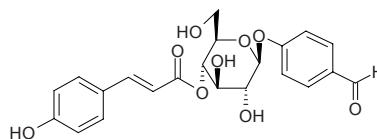
[572-76-9]  $C_{19}H_{19}NO_4$  (325.37). mp 195~196°C,  $[\alpha]_D = +303^\circ$  (CHCl<sub>3</sub>),  $[\alpha]_D = +298^\circ$  (EtOH). Source: NAN TIAN ZHU ZI *Nandina domestica*, NAN TIAN ZHU GEN *Nandina domestica*. Ref: 6, 1521.

**15246 Nangustine**

$C_{16}H_{17}NO_4$  (287.32). White solid, mp 261°C,  $[\alpha]_D^{20} = -69.6^\circ$ . Source: WU KE LAN XIA YE SHUI XIAN *Narcissus angustifolius*. Ref: 1978.

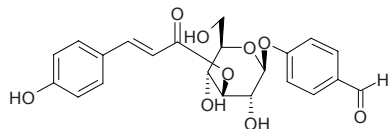
**15247 Nantenoside A**

$C_{22}H_{22}O_9$  (430.42). Source: NAN TIAN ZHU YE *Nandina domestica*. Ref: 2603.

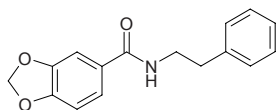


**15248 Nantenoside B**

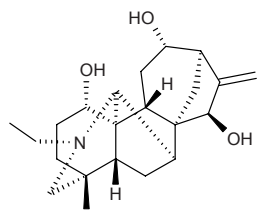
$C_{22}H_{22}O_9$  (430.42). Source: NAN TIAN ZHU YE *Nandina domestica*. Ref: 2603.

**15249 Nantoamide**

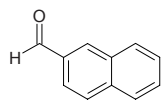
$C_{16}H_{15}NO_3$  (269.30). Colorless syrup. Pharm: Anti-HIV (inhibits HIV replication, H9 lymphocytic cells,  $IC_{50}$  (concentration that inhibits uninfected H9 cell growth by 50%)  $> 25\mu g/mL$ ,  $EC_{50}$  no suppression, TI no suppression, control AZT,  $IC_{50} = 500\mu g/mL$ ,  $EC_{50} = 0.0007\mu g/mL$ , TI = 710 000); cytotoxic (hmn cancer lines NUGC-3,  $IC_{50} > 20\mu g/mL$ , hmn cancer lines HONE-1,  $IC_{50} > 20\mu g/mL$ , hmn cancer lines A549,  $EC_{50} > 20\mu g/mL$ , hmn cancer lines MCF7,  $EC_{50} > 20\mu g/mL$ ). Source: NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 4267.

**15250 Napelline**

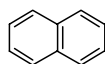
[5008-52-6]  $C_{22}H_{33}NO_3$  (359.51). Crystals,  $+1H_2O$ , mp  $117\sim 118.5^\circ C$ ,  $[\alpha]_D^{21} = -13^\circ$  (MeOH). Pharm: Antihypertensive (cat, brief action). Source: OU WU TOU *Aconitum napellus*, DUO GEN WU TOU *Aconitum karakolicum*. Ref: 658, 1521.

**15251  $\beta$ -Naphthaldehyde**

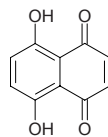
[66-99-9]  $C_{11}H_8O$  (156.19). mp  $59^\circ C$ . Source: WU MU XIE *Diospyros ebenum*. Ref: 6.

**15252 Naphthalene**

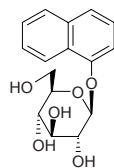
[91-20-3]  $C_{10}H_8$  (128.18). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], XI XIN *Asarum sieboldii*. Ref: 2.

**15253 Naphthazarin**

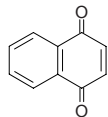
5,8-Dihydroxy-1,4-naphthoquinone [475-38-7]  $C_{10}H_6O_4$  (190.16). Pharm: Contracts blood vessels (inhibits ACh-induced relaxation on intact thoracic aorta,  $IC_{50} = (0.29\pm 0.04)\mu mol/L$ , 1,4-Naphthoquinone,  $IC_{50} = (1.50\pm 0.17)\mu mol/L$  [4916]; molluscicide (toxic to shellfish). Source: DONG BEI HU TAO *Juglans mandshurica* var. *sieboldiana*, *Macrotomia euchroma* (root), XIN ZANG JIA ZI CAO *Arnebia euchroma* (root). Ref: 658, 4916.

**15254 1-Naphthol- $\beta$ -D-glucopyranoside**

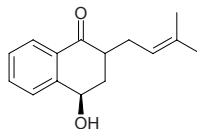
$C_{16}H_{18}O_6$  (306.32). Source: HAI ZHOU GU SUI BU *Davallia mariesii*. Ref: 2604.

**15255 1,4-Naphthoquinone**

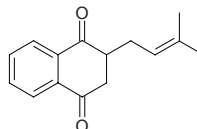
$C_{10}H_6O_2$  (158.16). Source: HU TAO REN *Juglans regia*, ZHI JIA HUA YE *Lawsonia inermis*. Ref: 2605, 2606.

**15256 Naphthoquinone I**

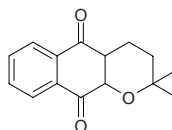
$C_{15}H_{18}O_2$  (230.31). Source: ZI MU *Catalpa ovata*. Ref: 6.

**15257 Naphthoquinone II**

$C_{15}H_{16}O_2$  (228.29). Source: ZI MU *Catalpa ovata*. Ref: 6.

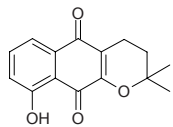
**15258 Naphthoquinone III**

$C_{15}H_{16}O_3$  (244.29). Source: ZI MU *Catalpa ovata*. Ref: 6.

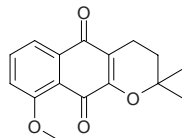


**15259 Naphthoquinone IV**

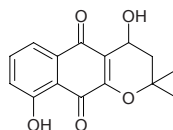
$C_{15}H_{14}O_4$  (258.28). Source: ZI MU *Catalpa ovata*. Ref: 6.

**15260 Naphthoquinone V**

$C_{16}H_{16}O_4$  (272.30). Source: ZI MU *Catalpa ovata*. Ref: 6.

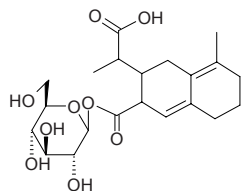
**15261 Naphthoquinone VI**

$C_{15}H_{14}O_5$  (274.28). Source: ZI MU *Catalpa ovata*. Ref: 6.

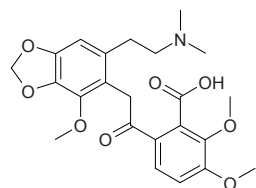
**15262 Napiferoside**

4,9-Dien-eudesmine-13,15-dicarboxylic acid-15- $\beta$ -D-glucopyranoside

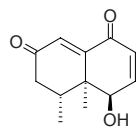
$C_{21}H_{30}O_9$  (426.47). Amorphous powder mp 176~178°C. Source: YUAN JING HUAN YANG SHEN *Crepis napifera*. Ref: 854.

**15263 Narceine**

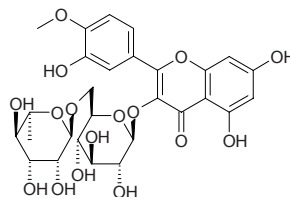
[131-28-2]  $C_{23}H_{27}NO_8$  (445.47). mp 145.2°C. Pharm: Antitussive; antihypertensive; promotes intestinal motion; respiratory stimulant. Source: YING SU *Papaver somniferum*, YA PIAN *Papaver somniferum*. Ref: 6, 658.

**15264 Narchinol A**

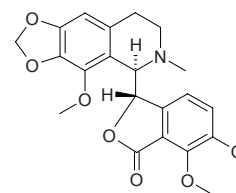
[38226-98-1]  $C_{12}H_{14}O_3$  (206.24). Yellow Crystals (EtOAc), mp 146~148°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 2607.

**15265 Narcissin**

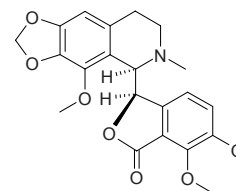
[604-80-8]  $C_{28}H_{32}O_{16}$  (624.56). mp 174°C. Source: GAN CAO *Glycyrrhiza uralensis*, SHUI XIAN HUA *Narcissus tazetta* var. *chinensis*. Ref: 6, 231, 660.

**15266  $\alpha$ -Narcotine**

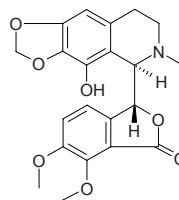
[128-62-1]  $C_{22}H_{23}NO_7$  (413.43). mp 176°C. Pharm: Antispasmodic; non-addictive antitussive (used in treatment of paroxysmal cough); LD<sub>50</sub> (mus, iv) = 83mg/kg. Source: LI CHUN HUA *Papaver commutatum* [Syn. *Papaver rhoeas*], TIAN CHENG *Citrus sinensis*, YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 6, 658, 660.

**15267  $\beta$ -Narcotine**

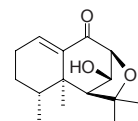
$C_{22}H_{23}NO_7$  (413.43). Source: YA PIAN *Papaver somniferum*. Ref: 660.

**15268 Narcotoline**

[521-40-4]  $C_{21}H_{21}NO_7$  (399.40). mp 202°C. Pharm: Antispasmodic; respiratory stimulant. Source: YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*, YING SU KE *Papaver somniferum*. Ref: 6, 658.

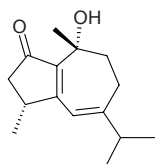
**15269 Nardofuran**

[42438-76-6]  $C_{15}H_{22}O_3$  (250.34). Oil. Source: GAN SONG *Nardostachys chinensis*. Ref: 2608.

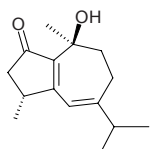


**15270 Nardoguaianone J**

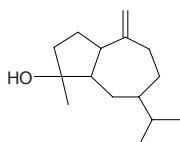
(4*R*,10*R*)-10-Hydroxyguaia-1(5),6-dien-2-one C<sub>15</sub>H<sub>22</sub>O<sub>2</sub> (234.34). Colorless oil,  $[\alpha]_D^{26} = -34.1^\circ$  ( $c = 0.26$ , MeOH). Source: GAN SONG *Nardostachys chinensis*. Ref: 2007.

**15271 Nardoguaianone K**

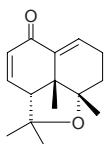
(4*R*,10*S*)-10-Hydroxyguaia-1(5),6-dien-2-one C<sub>15</sub>H<sub>22</sub>O<sub>2</sub> (234.34). Colorless oil,  $[\alpha]_D^{26} = +210.3^\circ$  ( $c = 0.53$ , MeOH). Source: GAN SONG *Nardostachys chinensis*. Ref: 2007.

**15272 Nardol**

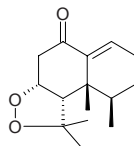
[6090-27-3] C<sub>15</sub>H<sub>26</sub>O (222.37). bp 120~125°C/0.5mmHg. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**15273 Nardonoxide**

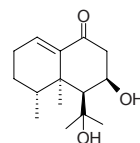
[111514-48-8] C<sub>15</sub>H<sub>20</sub>O<sub>2</sub> (232.33). Crystals (MeOH), mp 62~64°C,  $[\alpha]_D^{20} = -85^\circ$  ( $c = 0.65$ , CHCl<sub>3</sub>). Source: GAN SONG *Nardostachys chinensis*. Ref: 2609.

**15274 Nardosinone**

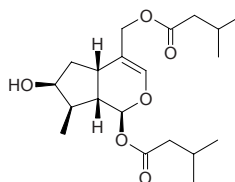
C<sub>15</sub>H<sub>22</sub>O<sub>3</sub> (250.34). mp 108~110°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**15275 Nardosinonediol**

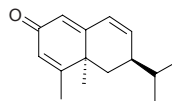
[20489-11-6] C<sub>15</sub>H<sub>24</sub>O<sub>3</sub> (252.36). Crystals (MeOH aq.), mp 141~143°C. Source: GAN SONG *Nardostachys chinensis*. Ref: 2608.

**15276 Nardostachin**

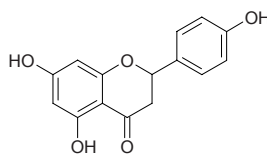
[114687-82-0] C<sub>21</sub>H<sub>32</sub>O<sub>6</sub> (368.47). Yellow oil,  $[\alpha]_D = -80.9^\circ$  ( $c = 0.4$ , CHCl<sub>3</sub>);  $[\alpha]_D^{23} = -80.9^\circ$  ( $c = 0.4$ , MeOH). Source: GAN SONG *Nardostachys chinensis*, BIAN DOU CAI YE BAI JIANG *Patrinia saniculaefolia* (whole herb). Ref: 2610, 4341.

**15277 Nardostachone**

C<sub>15</sub>H<sub>20</sub>O (216.33). bp 130~135°C/0.09mmHg. Source: GAN SONG *Nardostachys chinensis*. Ref: 6, 2781.

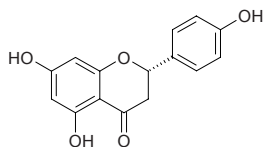
**15278 (±)-Naringenin**

C<sub>15</sub>H<sub>12</sub>O<sub>5</sub> (272.26). Pharm: Vasorelaxant; antioxidant<sup>†</sup>; cyclonucleotide phosphodiesterase inhibitor. Source: *Citrus* spp. (fruit). Ref: 3371.

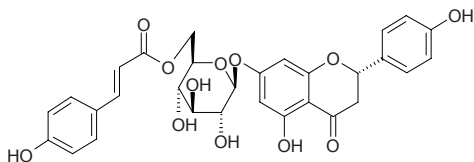


**15279 Naringenin**

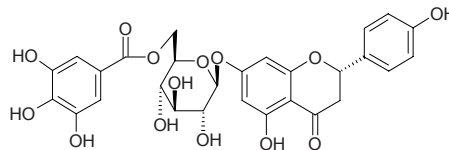
5,7,4'-Trihydroxyflavanone; (2*S*)-Naringenin [480-41-1] C<sub>15</sub>H<sub>12</sub>O<sub>5</sub> (272.26). mp 251°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus dysenteriae* and *B. Typhosus*); antineoplastic (rat L<sub>1210</sub> and sarcoma); cytotoxic (HSC-2 cells, CC<sub>50</sub> = 0.55mmol/L; HGF, CC<sub>50</sub> > 0.74mmol/L)<sup>[3025]</sup>; antifungal (TLC bioautographic assay, *Cladosporium cladosporioides*, MA = 10µg, control Miconazole, MA = 1.0µg; *Cladosporium sphaerospermum*, MA = 5.0µg, Miconazole, MA = 1.0µg)<sup>[3440]</sup>; antihepatotoxin; anti-inflammatory (rat, wool-ball model, 20mg/(kg·d), ip); antispasmodic; choleric (bile secretion promotor); induces nodulin gene expression of symbion in *Rhizobium leguminosarum* and *Pisum sativum*; antioxidant; platelet aggregation inhibitor; 5-HT inhibitor; histidine decarboxylase inhibitor; anti-inflammatory (macrophages, COX-2 inhibitor, inhibits COX-2 expression)<sup>[4415]</sup>; passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced β-hexosaminidase release from RBL-2H3 cells, IC<sub>50</sub> = (29±1)µmol/L, control Azelastine, IC<sub>50</sub> = (35±2)µmol/L; PCA reaction inhibitor, 5mg/kg ip, InRt = (70±2)%<sup>[5041]</sup>; aromatase inhibitor (*in vitro*, IC<sub>50</sub> = 17µmol/L; control Aminoglutethimide, IC<sub>50</sub> = 6.4µmol/L)<sup>[3090]</sup>. **Source:** CU YE MAI HU JIAO *Piper crassinervium*, DU XIAN ZI *Anacardium occidentale*, GOU JI *Cudrania cochinchinensis* (root: yield = 0.0010%dw)<sup>[3025]</sup>, GOU SHU *Broussonetia papyrifera*<sup>[3090]</sup>, HU LU BA *Trigonella foenum-graecum*, HUA ZHOU YOU *Citrus grandis* var. *Tomentosa* (closing ripe exocarp: mean content = 0.044%)<sup>[5508]</sup>, LENG ZHI HU JI SHENG *Viscum angulatum* (whole herb: yield = 0.00090%dw)<sup>[4626]</sup>, PU ER CHA *Camellia sinensis* var. *assamica*, RI BEN YING HUA *Prunus yedoensis*, SHA SHENG LA JU *Helichrysum arenarium*, SHAN TAO JING BAI PI *Prunus davidiana*, SHAN TAO ZHI *Prunus davidiana*, SHAN ZHU ZI *Garcinia multiflora* (stem: yield = 0.00007%dw)<sup>[4708]</sup>, TAO HUA *Prunus persica*, TAO JING BAI PI *Prunus persica*, TAO ZHI *Prunus persica*, TAOYE *Prunus persica*, WU HE MI JU *Citrus unshiu* (pericarp), WU MEI *Prunus mume*, XIA YE XIANG PU *Typha angustifolia*, YOU<sup>(4)</sup> *Citrus grandis* (closing ripe exocarp: mean content = 0.043%)<sup>[5508]</sup>, YOU GAN YE *Phyllanthus emblica* (branch and leaf), *Artemisia* sp., *Dahlia* sp., occurs in many plants. **Ref:** 4, 6, 581, 615, 658, 660, 3025, 3090, 3440, 4205, 4415, 4626, 4708, 5041, 5508.

**15280 Naringenin 7-O-(6''-O-trans-p-coumaroyl)-glucoside**

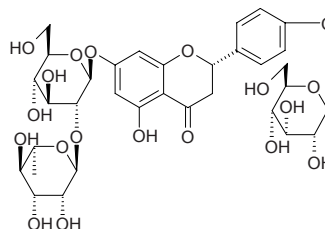
C<sub>30</sub>H<sub>28</sub>O<sub>12</sub> (580.55). **Source:** YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 4205.

**15281 Naringenin 7-O-(6''-O-galloyl)-glucoside**

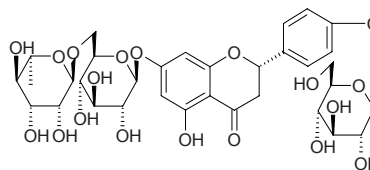
C<sub>28</sub>H<sub>26</sub>O<sub>14</sub> (586.51). **Source:** YOU GAN YE *Phyllanthus emblica* (leaf and branch). **Ref:** 4205.

**15282 Naringenin-4'-glucoside-7-neohesperidoside**

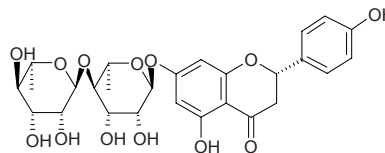
C<sub>33</sub>H<sub>42</sub>O<sub>19</sub> (742.69). **Source:** YOU<sup>(4)</sup> *Citrus grandis*. **Ref:** 6.

**15283 Naringenin-4'-glucoside-7-rutinoside**

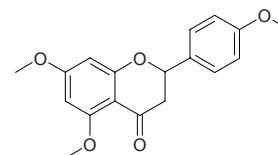
C<sub>33</sub>H<sub>42</sub>O<sub>19</sub> (742.69). **Source:** TIAN CHENG *Citrus sinensis*. **Ref:** 6.

**15284 Naringenin-7-O-α-L-rhamnosyl(1→4)-rhamnoside**

C<sub>27</sub>H<sub>32</sub>O<sub>13</sub> (564.55). **Source:** ZI WEI JING YE *Campsis grandiflora*. **Ref:** 2611.

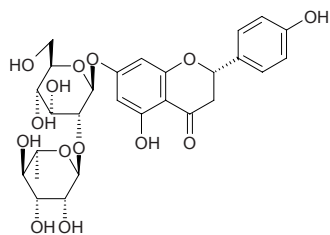
**15285 Naringenin trimethyl ether**

5,7,4'-Trimethoxyflavanone C<sub>18</sub>H<sub>18</sub>O<sub>5</sub> (314.34). Prisms (*n*-hexane–EtOAc), mp 124°C, mp 123.5~124.5°C. **Source:** CHANG YE GE NA XIANG *Goniiothalamus gardneri* (aerial parts). **Ref:** 5096.

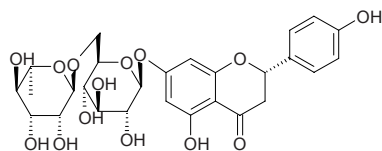


**15286 Naringin**

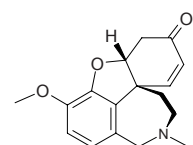
Aurantiin [10236-47-2]  $C_{27}H_{32}O_{14}$  (580.55). mp 82°C, 171°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Bacillus dysenteriae* and *B. typhosus*); anti-inflammatory (mus, ip, swollen foot caused by formaldehyde, ED = 100mg/kg, rat, sc, ED = 100mg/kg); antiviral (vesicular stomatitis virus, 200µg/mL); bitter principle; aldose reductase inhibitor (rat eye lens, 100µmol/L, InRt = 80%); passive cutaneous anaphylaxis inhibitor (inhibits IgE-induced  $\beta$ -hexosaminidase release from RBL-2H3 cells,  $IC_{50} > 500\mu\text{mol/L}$ , control Azelastine,  $IC_{50} = (35\pm 2)\mu\text{mol/L}$ ; PCA reaction inhibitor, 20mg/kg orl, InRt =  $(79.2\pm 7.4)\%$ )<sup>[5041]</sup>. **Source:** GOU JU *Poncirus trifoliata*, GOU JU ZHI KE *Poncirus trifoliata*, GOU JU ZHI SHI *Poncirus trifoliata*, GU SUI BU *Drynaria fortunei* (rhizome: content scope = 0.179%~0.540%<sup>[5508]</sup>), GUAN ZHONG *Dryopteris crassirhizoma*, HUA ZHOU YOU *Citrus grandis* var. *Tomentosa* (closing ripe exocarp: content = 1.55%<sup>[5508]</sup>), JU PI *Citrus reticulata* (closing ripe exocarp: content = 0.32%<sup>[5508]</sup>), NING MENG *Citrus limon*, NING MENG PI *Citrus limon*, PU TAO YOU *Citrus paradisi*, QIU SUI QIAN JIN BA *Flemingia strobilifera*, TU XIANG RU *Origanum vulgare*, WU HE MI JU *Citrus unshiu* (pericarp), YOU<sup>(4)</sup> *Citrus grandis* (closing ripe exocarp: mean content = 3.12%<sup>[5508]</sup>), ZHI KE *Citrus aurantium* (closing ripe exocarp: content = 6.98%<sup>[5508]</sup>), ZHI SHI *Citrus aurantium* (closing ripe exocarp: content = 1.05%<sup>[5508]</sup>), ZHU LUAN *Citrus decumana*, *Adiantum* sp. **Ref:** 2, 4, 658, 660, 5041, 5501, 5508.

**15287 Narirutin**

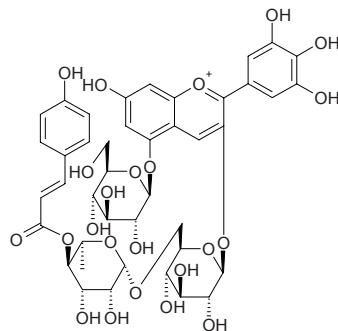
[14259-46-2]  $C_{27}H_{32}O_{14}$  (580.55). mp 160~165°C. **Pharm:** Stimulates egg deposition (*Papilio xuthus*). **Source:** TIAN CHENG *Citrus sinensis*, *Citrus* sp. **Ref:** 6, 658.

**15288 Narwedine**

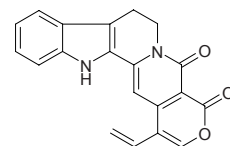
[510-77-0]  $C_{17}H_{19}NO_3$  (285.36). **Pharm:** Enhances amplitude of contraction and reduces frequency of heart beat; enhances respiration. **Source:** GUANG XI SHI SUAN *Lycoris guangxiensis*, XUE HUA LIAN *Galanthus nivalis*. **Ref:** 658.

**15289 Nasunin**

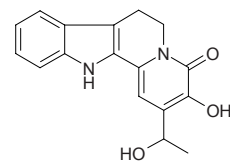
Violanin; Delphanin [28463-30-1]  $C_{42}H_{47}O_{23}$  (919.83). mp 179~180°C. **Source:** QIE ZI *Solanum melongena*. **Ref:** 6.

**15290 Nauclealine A**

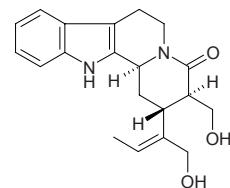
3,14,15,16,17,20-Hexadehydro-16-ethenyloxayohimban-19,21-dione  $C_{20}H_{14}N_2O_3$  (330.35). Yellowish amorphous solid, mp 267~268°C (MeOH). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark). **Ref:** 3074.

**15291 Nauclealine B**

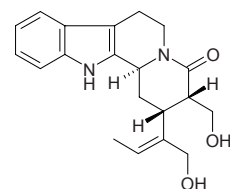
Indolo[2,3-*a*]quinolizine-2-(1-hydroxyethyl)-3-hydroxy-4,6,7,12-tetrahydro-4-one  $C_{17}H_{16}N_2O_3$  (296.33). Yellowish amorphous solid, mp 222~223°C (MeOH),  $[\alpha]_D^{22} = -11.4^\circ$  ( $c = 0.07$ , MeOH). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark). **Ref:** 3074.

**15292 Naucleamide A**

$C_{20}H_{24}N_2O_3$  (340.43). **Source:** KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.0016%). **Ref:** 4303.

**15293 Naucleamide B**

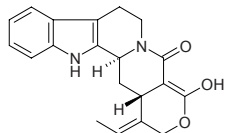
$C_{20}H_{24}N_2O_3$  (340.43). **Source:** KUAN YE WU TAN *Nauclea latifolia* (bark and wood: yield = 0.0016%). **Ref:** 4303.



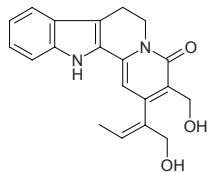


**15294 Naucleamide C**

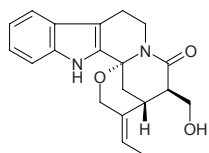
$C_{20}H_{20}N_2O_3$  (336.39). Source: KUAN YE WU TAN *Nauclea latifolia* (bark and wood; yield = 0.0012%). Ref: 4303.

**15295 Naucleamide D**

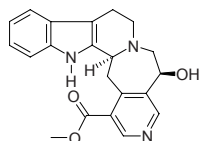
$C_{20}H_{20}N_2O_3$  (336.39). Source: KUAN YE WU TAN *Nauclea latifolia* (bark and wood; yield = 0.0012%). Ref: 4303.

**15296 Naucleamide E**

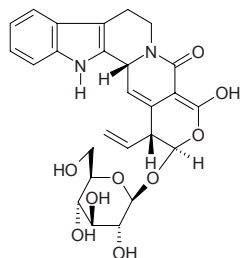
$C_{20}H_{22}N_2O_3$  (338.41). Source: KUAN YE WU TAN *Nauclea latifolia* (bark and wood; yield = 0.0008%). Ref: 4303.

**15297 Nauclechine**

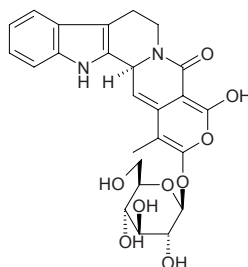
[38940-73-7]  $C_{21}H_{21}N_3O_3$  (363.42). Crystals (MeOH), mp = 108–114°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*, KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178, 1521.

**15298 Nauclecoside**

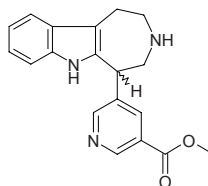
[121880-11-3]  $C_{26}H_{28}N_2O_9$  (512.52). Colorless granular crystals, mp > 310°C,  $[\alpha]_D^{25} = -149^\circ$  ( $c = 0.1$ , 50% EtOH). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Salmonella* sp., *Bacillus proteus*, *Aspergillus niger*, *Bacillus lactis*, *Klebsiella* sp.); antileishmanial. Source: DAN MU *Nauclea officinalis*. Ref: 118, 2178.

**15299 Nauclecosidine**

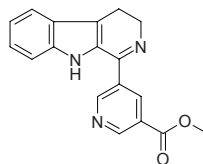
[121880-13-5]  $C_{25}H_{26}N_2O_9$  (498.49). Acicular crystals, mp 200–202°C. Source: DAN MU *Nauclea officinalis*. Ref: 118, 1521.

**15300 Nauclederine**

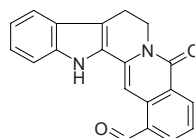
[38940-72-6]  $C_{19}H_{19}N_3O_2$  (321.38). mp 102–124°C,  $[\alpha]_D^{25} = +0^\circ$  ( $c = 3.3$ ,  $CHCl_3$ ). Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178, 1521.

**15301 Naucedine**

[26238-84-6]  $C_{18}H_{15}N_3O_2$  (305.34). Yellowish needles (MeOH). mp 84–90°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178, 1521.

**15302 Naucleficine**

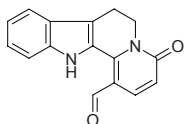
[96400-54-3]  $C_{20}H_{14}N_2O_2$  (314.35). mp 290–291°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DAN MU *Nauclea officinalis*. Ref: 2178, 1521.



**15303 Nauclefidine**

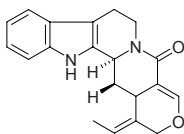
[96400-52-1] C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub> (264.29). Orange-yellow crystals, mp 307~309°C.

**Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 2178, 1521.

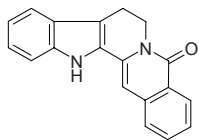
**15304 Nauclefiline**

[102358-19-0] C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub> (320.39). Colorless acicular crystals, mp 315~317°C,

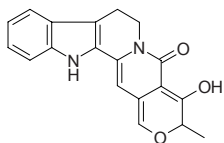
[α]<sub>D</sub> = -281 (c = 0.1, ethanol). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; ; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 41, 2178, 1521.

**15305 Nauclefine**

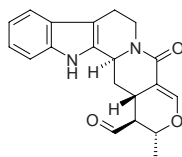
[57103-51-2] C<sub>19</sub>H<sub>14</sub>N<sub>2</sub>O (286.34). mp 285~290°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; ; antifungal (*Aspergillus niger*). **Source:** KUANG YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

**15306 Nauclefoline**

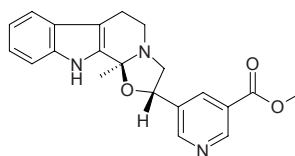
[96400-51-0] C<sub>19</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub> (320.35). mp 270~272°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; ; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 2178, 1521.

**15307 Naucleidinal**

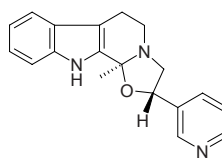
[77513-45-2] C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>3</sub> (336.39). mp 203~205°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DAN MU *Nauclea officinalis*. **Ref:** 2178, 1521.

**15308 Naucleonidine**

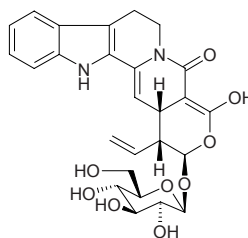
C<sub>21</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub> (363.42). mp 233~240°C. **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** BO SHI WU TAN *Nauclea pobequinii*. **Ref:** 2178, 1521.

**15309 Naucleonine**

C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O (305.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** DI SHI WU TAN *Nauclea diderrichii*. **Ref:** 2178, 1521.

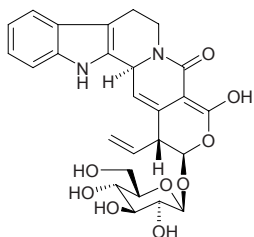
**15310 Naucleoside A**

3,14,19,20-Tetrahydro-16-ethenyl-17-(β-D-glucopyranosyloxy)-19-hydroxy-(15β,16α,17β)-oxayohimban-21-one C<sub>26</sub>H<sub>28</sub>N<sub>2</sub>O<sub>9</sub> (512.52). Orange-yellow amorphous solid, mp 171~172°C (MeOH), [α]<sub>D</sub><sup>22</sup> = 48.6° (c = 0.15, MeOH). **Source:** DONG FANG WU TAN *Nauclea orientalis* (bark). **Ref:** 3074.

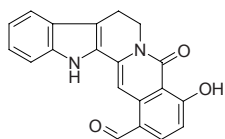


**15311 Naucleoside B**

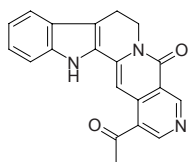
14,15,19,20-Tetrahydro-16-ethenyl-17-( $\beta$ -D-glucopyranosyloxy)-19-hydroxy-(3 $\alpha$ ,16 $\alpha$ ,17 $\beta$ )-oxayohimban-21-one C<sub>26</sub>H<sub>28</sub>N<sub>2</sub>O<sub>9</sub> (512.52). Orange-yellow amorphous solid, mp 189~190°C (MeOH), [ $\alpha$ ]<sub>D</sub><sup>22</sup> = -58.2° (c = 0.15, MeOH). Source: DONG FANG WU TAN *Nauclea orientalis* (bark). Ref: 3074.

**15312 Nauclequiniine**

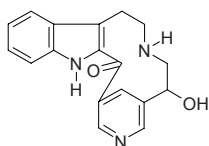
C<sub>20</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub> (330.35). mp 291~292°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: BO SHI WU TAN *Nauclea pobequini*. Ref: 2178.

**15313 Naucleetine**

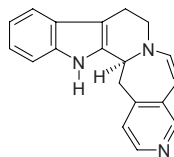
[54698-29-2] C<sub>20</sub>H<sub>15</sub>N<sub>3</sub>O<sub>2</sub> (329.36). mp 310°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178, 1521.

**15314 Nauclexine**

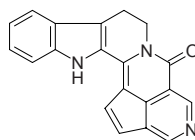
[38940-74-8] C<sub>18</sub>H<sub>17</sub>N<sub>3</sub>O<sub>2</sub> (307.36). Needles (CH<sub>2</sub>Cl<sub>2</sub>-MeOH), mp 229~232°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: DI SHI WU TAN *Nauclea diderrichii*. Ref: 2178, 1521.

**15315 Naufoline**

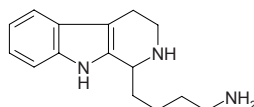
[59785-75-0] C<sub>19</sub>H<sub>17</sub>N<sub>3</sub> (287.37). Crystals (MeOH), mp 252°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178, 1521.

**15316 Naulafine**

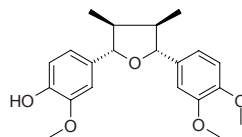
[70503-66-1] C<sub>20</sub>H<sub>13</sub>N<sub>3</sub>O (311.35). mp 300°C. Pharm: Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). Source: KUAN YE WU TAN *Nauclea latifolia*. Ref: 2178.

**15317 Nazlinin**

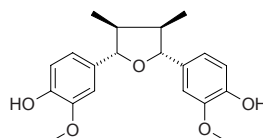
[136945-81-8] C<sub>15</sub>H<sub>21</sub>O<sub>3</sub> (243.35). White amorphous powder. Pharm: Vascular relaxant and vasoconstrictor (rht, assay by aortal ring with endodermis, when dose less than 40nmol relaxes blood vessel, when dose over 40nmol contracts blood vessel, for assay without endodermis relaxing activity disappears). Source: DONG QIANG *Nitraria schoberi*. Ref: 1521, 2612.

**15318 (-)-Nectandrin A**

[74683-15-1] C<sub>21</sub>H<sub>26</sub>O<sub>5</sub> (358.44). Colorless oleaginous substance, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -28° (CHCl<sub>3</sub>). Source: DUAN JU *Piper mullesua*. Ref: 424.

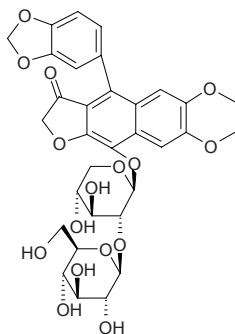
**15319 Nectandrin B**

[74683-16-2] C<sub>20</sub>H<sub>24</sub>O<sub>5</sub> (344.41). Colorless oleaginous substance. Pharm: Immunosuppressant (hmn, inhibits mitogen-induced hyperplasia of lymphocyte in peripheral blood, IC<sub>50</sub> = 3.30 $\mu$ g/mL); 5-lipoxygenase inhibitor (used in treatment of diseases due to metabolic imbalance of arachidonic acid); aldose reductase inhibitor. Source: DUAN JU *Piper mullesua*. Ref: 424, 1669, 1670.

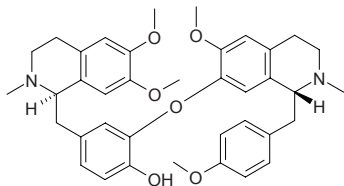


**15320 Neesiinoside A**

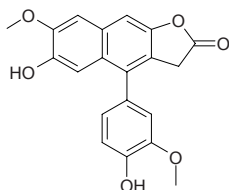
$C_{32}H_{34}O_{16}$  (674.62). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.027%dw). Ref: 4712.

**15321 Neferine**

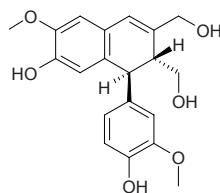
[2292-16-2]  $C_{38}H_{44}N_2O_6$  (624.78). Amorphous loose yellowish powder (diethyl ether), mp 59~61°C,  $[\alpha]_D^{24} = -44.1^\circ$  ( $c = 0.301$ , chloroform). Pharm: Antiarrhythmic; antihypertensive (vasodilation, independent of vascular endothelium); calcium antagonist (10~40  $\mu\text{mol/L}$ , inhibits the increase of  $\text{Ca}^{2+}$  concentration caused by ET-1); inhibits cardiac muscles; platelet aggregation inhibitor (inhibits calcium entry and releases in platelets); inhibits promotor of cancer. Source: LIAN ZI XIN *Nelumbo nucifera* (dried plumule and radicle in seed: mean content of 7 origins = 0.251%<sup>[5508]</sup>). Ref: 6, 900, 5501, 5508.

**15322 Negundin A**

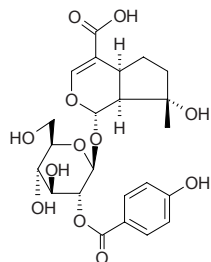
$C_{20}H_{16}O_6$  (352.35). Amorphous white solid, mp 125°C. Pharm: Lipoxigenase inhibitor (*in vitro*,  $\text{IC}_{50} = (99.5 \pm 2.0) \mu\text{mol/L}$ , control Baicalein,  $\text{IC}_{50} = (22.5 \pm 0.3) \mu\text{mol/L}$ ); AChE inhibitor (*in vitro*,  $\text{IC}_{50} > 300 \mu\text{mol/L}$ , control Galanthamine,  $\text{IC}_{50} = 0.5 \mu\text{mol/L}$ ); butyrylcholinesterase inhibitor (*in vitro*,  $\text{IC}_{50} = (85.0 \pm 0.8) \mu\text{mol/L}$ , control Galanthamine,  $\text{IC}_{50} = (8.7 \pm 0.1) \mu\text{mol/L}$ ). Source: HUANG JING GEN *Vitex negundo*. Ref: 2555.

**15323 Negundin B**

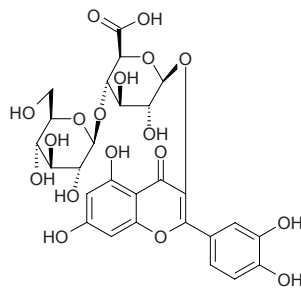
$C_{20}H_{22}O_6$  (358.39). White amorphous solid.  $[\alpha]_D^{25} = -56^\circ$  ( $c = 0.11$ , MeOH). Pharm: Lipoxigenase inhibitor (*in vitro*,  $\text{IC}_{50} = (6.25 \pm 0.50) \mu\text{mol/L}$ , control Baicalein,  $\text{IC}_{50} = (22.5 \pm 0.3) \mu\text{mol/L}$ ); AChE inhibitor (*in vitro*,  $\text{IC}_{50} = (254 \pm 1) \mu\text{mol/L}$ , control Galanthamine,  $\text{IC}_{50} = 0.5 \mu\text{mol/L}$ ); butyrylcholinesterase inhibitor (*in vitro*,  $\text{IC}_{50} = (194.0 \pm 4.4) \mu\text{mol/L}$ , control Galanthamine,  $\text{IC}_{50} = (8.7 \pm 0.1) \mu\text{mol/L}$ ). Source: HUANG JING GEN *Vitex negundo*. Ref: 2555.

**15324 Negundoside**

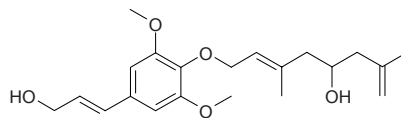
[82451-20-5]  $C_{23}H_{28}O_{12}$  (496.47). Needles (MeOH), mp 160~162°C,  $[\alpha]_D^{24} = -117.6^\circ$  ( $c = 3$ , MeOH). Source: HUANG JING YE *Vitex negundo*. Ref: 1521.

**15325 Nelumboside**

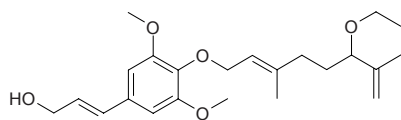
$C_{27}H_{28}O_{18}$  (640.51). mp 174~175°C. Source: HE YE *Nelumbo nucifera*, HUI XIANG JING YE *Foeniculum vulgare*. Ref: 6.

**15326 Nelumol B**

4-O-[(2E)-3,7-Dimethyl-2,7-octadien-5-ol]sinapyl alcohol  $C_{21}H_{30}O_5$  (362.47). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root: yield = 0.00070%dw). Ref: 4632.

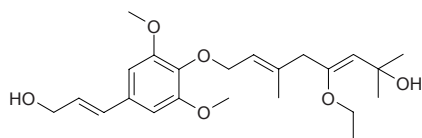
**15327 Nelumol C**

4-O-[(2E)-3,7-Dimethyl-6-ethoxy-2,7-octadiene]-sinapyl alcohol  $C_{23}H_{34}O_5$  (390.52). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root: yield = 0.0011%dw). Ref: 4632.

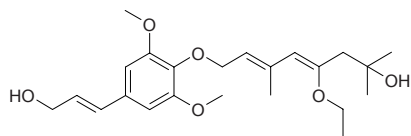


**15328 Nelumol D**

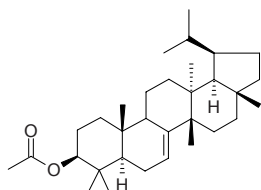
4-*O*-[(2*E*,5*E*)-3,7-Dimethyl-5-ethoxy-2,5-octadiene-7-ol]-sinapyl alcohol  
 $C_{23}H_{34}O_6$  (406.52). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root: yield = 0.00085%dw). Ref: 4632.

**15329 Nelumol E**

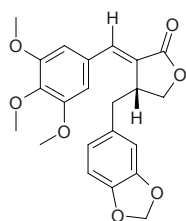
4-*O*-[(2*E*,4*E*)-3,7-Dimethyl-5-ethoxy-2,4-octadien-7-ol]-sinapyl alcohol  
 $C_{23}H_{34}O_6$  (406.52). Source: LIAN YE TUO WU *Ligularia nelumbifolia* (root: yield = 0.00075%dw). Ref: 4632.

**15330 Nematocyphol acetate**

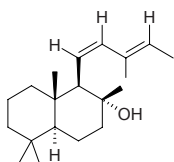
$C_{32}H_{52}O_2$  (468.77). White lamellar crystals, mp 264–265°C,  $[\alpha]_D^{21} = 0^\circ$  ( $c = 0.049$ , chloroform). Source: DA LANG DU *Euphorbia nematocypha*. Ref: 232.

**15331 Nemosin**

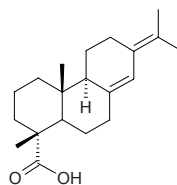
[17187-79-0]  $C_{22}H_{22}O_7$  (398.42). Pharm: Cytotoxic (hmn peripheral blood T cells, dose = 2.0 µg/mL, T cell survival rate = 69%); immunosuppressant (inhibits IL-2 secretion costimulated by CD28, dose = 2.0 µg/mL, InRt = 53%). Source: HONG CHAI HU *Bupleurum scorzonrifolium* (root). Ref: 3498.

**15332 cis-Neoabienol**

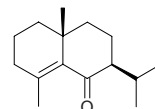
[25578-83-0]  $C_{20}H_{34}O$  (290.49).  $[\alpha]_D^{20} = +12.6^\circ$  ( $c = 3.8$ ,  $CHCl_3$ ). Source: HAI SONG ZI *Pinus koraiensis*, XI BO LI YA LENG SHAN *Abies sibirica*. Ref: 6, 2613.

**15333 Neoabietic acid**

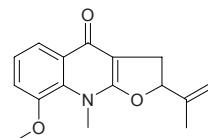
8(14),13(15)-Abietadien-18-oic acid [471-77-2]  $C_{20}H_{30}O_2$  (302.46). mp 167–169°C,  $[\alpha]_D^{24} = +159^\circ$ . Pharm: Platelet aggregation inhibitor (rbt, due to ADP and calcium); topical protectant. Source: SONG XIANG *Pinus massoniana*. Ref: 900.

**15334 Neoacalamone**

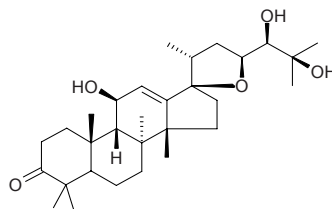
4-Eudesmen-6-one [1209-63-8]  $C_{15}H_{24}O$  (220.36). Oil,  $[\alpha]_D^{25} = +69^\circ$  ( $c = 0.22$ ,  $CHCl_3$ ). Source: JI JI *Chloranthus serratus*. Ref: 1521, 1540.

**15335 Neoacutifolin**

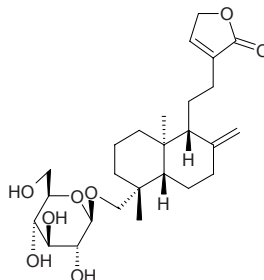
$C_{16}H_{17}NO_3$  (271.32). Pharm: Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. Source: *Zanthoxylum* sp. Ref: 2176.

**15336 Neoalisol**

$C_{30}H_{48}O_5$  (488.71). Colorless powder, mp 211°C. Source: ZE XIE *Alisma orientale* [Syn. *Alisma plantago-aquatica* var. *orientale*]. Ref: 2202.

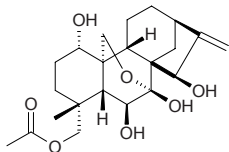
**15337 Neoandrographolide**

[27215-14-1]  $C_{26}H_{40}O_8$  (480.60). mp 168–169°C. Pharm: Antibacterial and antipyretic (rbt infected by *Diplococcus pneumoniae* or hemolytic  $\beta$ -streptococcus); low toxin (mus, orl, max. tolerance > 1.5g/kg). Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (dried aerial parts: mean content = 0.717%<sup>[5508]</sup>). Ref: 2, 658, 5508.

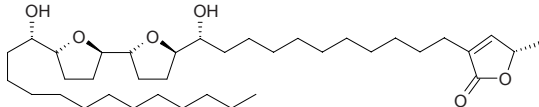


**15338 Neoangustifolin**

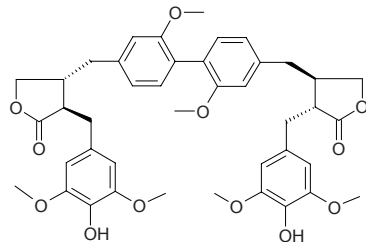
$C_{22}H_{32}O_7$  (408.50). mp 195~197°C. Source: SHAN DI XIANG CHA CAI *Isodon oresbia*. Ref: 4067.

**15339 Neoannonin**

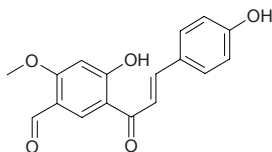
$C_{37}H_{66}O_6$  (606.93). Colorless oil,  $[\alpha]_D^{25} = +3.2^\circ$  ( $c = 0.51$ ,  $CHCl_3$ ). Pharm: Cytotoxic (hmn hepatoma cell lines HepG2,  $IC_{50} = 0.064\mu g/mL$ , control Adriamycin,  $IC_{50} = 0.241\mu g/mL$ ; hmn hepatoma cells transfected with hepatitis B virus Hep2,2,15,  $IC_{50} = 0.073\mu g/mL$ , Adriamycin,  $IC_{50} = 0.450\mu g/mL$ ). Source: CI GUO FAN LI ZHI *Annona muricata*. Ref: 5377.

**15340 Neoarctin B**

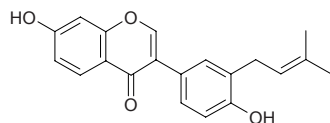
$C_{42}H_{46}O_{12}$  (742.83). Yellowish amorphous powder, mp 102.0~103.5°C,  $[\alpha]_D^{15} = -46.86^\circ$  ( $c = 0.083$ ,  $CHCl_3$ ). Source: NIU BANG ZI *Arctium lappa*. Ref: 288.

**15341 Neobavachalcone**

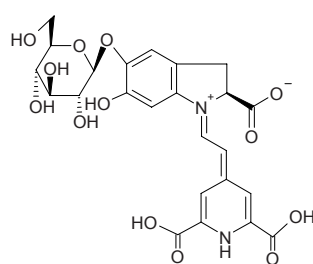
[65621-10-5]  $C_{17}H_{14}O_5$  (298.30). Source: BU GU ZHI *Psoralea corylifolia*. Ref: 2, 545.

**15342 Neobavaisoflavone**

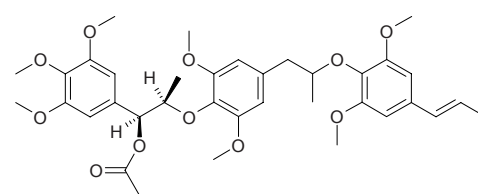
7,4'-Dihydroxy-3'- $\gamma$ , $\gamma$ -dimethylallyl isoflavone [41060-15-5]  $C_{20}H_{18}O_4$  (322.36). Pharm: Antibacterial (*Escherichia coli*, MIA = 0.50 $\mu g$ , control Chloramphenicol, MIA = 0.001 $\mu g$ ; *Staphylococcus aureus*, MIA = 0.10 $\mu g$ , Chloramphenicol, MIA = 0.0001 $\mu g$ ; *Bacillus subtilis*, MIA = 0.10 $\mu g$ , Chloramphenicol, MIA = 0.0001 $\mu g$ )<sup>[5247]</sup>; antifungal (*Candida mycoderma*, MIA = 0.02 $\mu g$ , control Miconazole, MIA = 0.0001 $\mu g$ )<sup>[5247]</sup>; antioxidant (DPPH scavenger, TLC, MIA = 0.5 $\mu g$ ,  $IC_{50} = 671\mu g/mL$ ; control Quercetin, MIA < 0.05 $\mu g$ ,  $IC_{50} = 7\mu g/mL$ , Gallic acid, MIA < 0.05 $\mu g$ ,  $IC_{50} = 4\mu g/mL$ ; Ascorbic acid, MIA < 0.10 $\mu g$ ,  $IC_{50} = 18\mu g/mL$ )<sup>[5247]</sup>. Source: BU GU ZHI *Psoralea corylifolia*, JI KUAN CI TONG *Erythrina latissima* (stem wood). Ref: 2, 545, 5247.

**15343 Neobetatin**

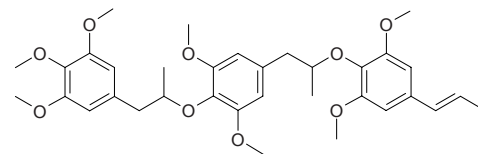
[71199-29-6]  $C_{24}H_{24}N_2O_{13}$  (548.46). Source: XIE ZHUA LAN *Schlumbergera truncata*. Ref: 2614.

**15344 Neobonaspectin A**

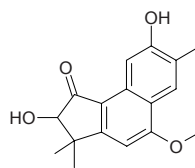
$C_{36}H_{46}O_{11}$  (654.76). Oil,  $[\alpha]_D^{20} = +5.3^\circ$  ( $c = 0.23$ ,  $CHCl_3$ ). Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**15345 Neobonaspectin B**

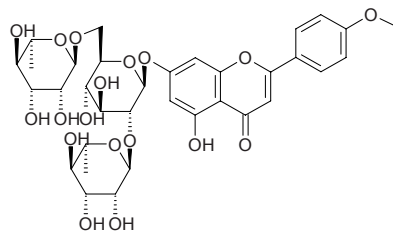
$C_{34}H_{44}O_9$  (596.72). Oil. Source: *Bonamia spectabilis* (aerial parts). Ref: 3904.

**15346 Neoboutonin**

$C_{17}H_{18}O_4$  (286.33). Pale yellow crystals (hexane-EtOAc), mp 277~278°C,  $[\alpha]_D^{20} = -41^\circ$  ( $c = 0.2$ , MeOH). Source: *Neoboutonia glabrescens*. Ref: 3441.

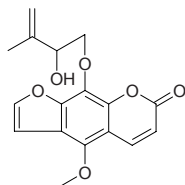
**15347 Neobudofficide**

5,7-Dihydroxy-4'-methoxyflavone-7-O- $\alpha$ -L-rhamno-pyranosyl-(1 $\rightarrow$ 2)-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 6)]- $\beta$ -D-glucopyranoside  $C_{34}H_{42}O_{18}$  (738.70). Yellowish powder, mp 180~182°C. Source: MI MENG HUA *Buddleja officinalis*. Ref: 369.

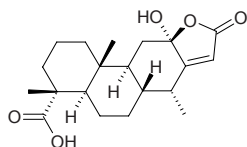


**15348 Neobyakangelicol**

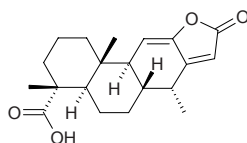
[35214-82-5] C<sub>17</sub>H<sub>16</sub>O<sub>6</sub> (316.31). mp 106~107°C. Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], YU JU *Ptelea trifoliata*, HANG BAI ZHI *Angelica taiwaniana*. Ref: 2, 1521.

**15349 Neocaesalpin H**

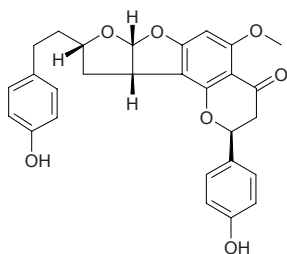
C<sub>20</sub>H<sub>28</sub>O<sub>5</sub> (348.44). Colorless needles, mp 255~256°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = -73.2° (c = 0.101, MeOH). Source: CI GUO SU MU *Caesalpinia crista* (leaf). Ref: 4474.

**15350 Neocaesalpin I**

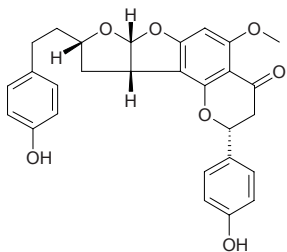
C<sub>20</sub>H<sub>26</sub>O<sub>4</sub> (330.43). Colorless needles, mp > 260°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +27.7° (c = 0.098, MeOH). Source: CI GUO SU MU *Caesalpinia crista* (leaf). Ref: 4474.

**15351 Neocalyxin A**

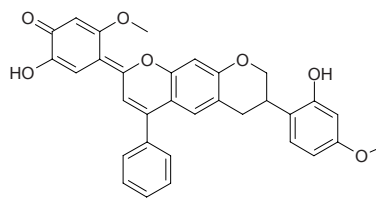
C<sub>28</sub>H<sub>26</sub>O<sub>7</sub> (474.52). Pharm: Cytotoxic (Colon26-L5, ED<sub>50</sub> > 100 μmol/L; HT1080, ED<sub>50</sub> = 10.7 μmol/L; control Curcumin, Colon26-L5, ED<sub>50</sub> = 23.2 μmol/L; HT1080, ED<sub>50</sub> = 23.4 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000022%). Ref: 3035.

**15352 Neocalyxin B**

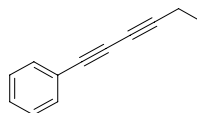
C<sub>28</sub>H<sub>26</sub>O<sub>7</sub> (474.52). Pharm: Cytotoxic (Colon26-L5, ED<sub>50</sub> = 78.0 μmol/L; HT1080, ED<sub>50</sub> = 20.2 μmol/L; control Curcumin, Colon26-L5, ED<sub>50</sub> = 23.2 μmol/L; HT1080, ED<sub>50</sub> = 23.4 μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000022%). Ref: 3035.

**15353 Neocandenatone**

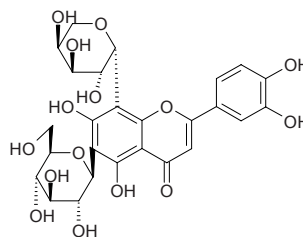
Vestitol[6→9";7O→7"]obtusaquinone C<sub>32</sub>H<sub>26</sub>O<sub>7</sub> (522.56). Purple amorphous powder. Source: JU HUA HUANG TAN *Dalbergia congestiflora* (heart wood). Ref: 3791.

**15354 Neocapillene**

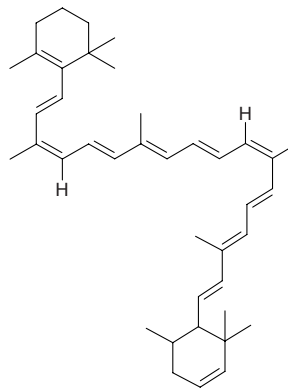
1-Phenyl-1,3-hexadiyne [10508-66-4] C<sub>12</sub>H<sub>10</sub> (154.21). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

**15355 Neocarlinoside**

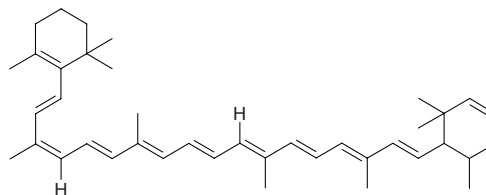
[83151-89-7] C<sub>26</sub>H<sub>28</sub>O<sub>15</sub> (580.50). Pharm: Insect phagostimulant (*Plant hoppers*). Source: JING MI *Oryza sativa*. Ref: 658.

**15356 Neo-β-carotene B**

C<sub>40</sub>H<sub>56</sub> (536.89). Source: BO CAI *Spinacia oleracea*. Ref: 6.

**15357 Neo-β-carotene U**

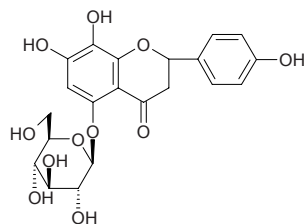
C<sub>40</sub>H<sub>56</sub> (536.89). Source: BO CAI *Spinacia oleracea*. Ref: 2615.



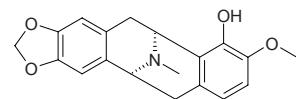


**15358 Neocarthamin**

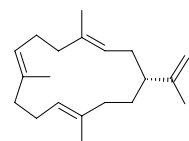
Isocarthamin C<sub>21</sub>H<sub>22</sub>O<sub>11</sub> (450.40). Source: HONG HUA *Carthamus tinctorius*. Ref: 2.

**15359 Neocaryachine**

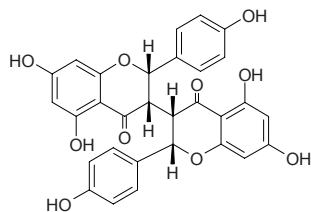
C<sub>19</sub>H<sub>19</sub>NO<sub>4</sub> (325.37). Source: HOU KE GUI *Cryptocarya chinensis* (wood). Ref: 3092.

**15360 Neocembrene**

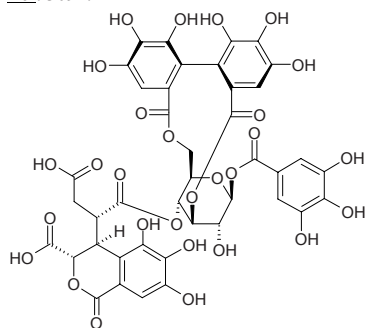
Cembrene A [31570-39-5] C<sub>20</sub>H<sub>32</sub> (272.48). Pharm: Pheromone of *Nasutitermis exitiosus* (for tracking). Source: XI BO LI YA YUN SHAN *Picea obovata*. Ref: 658, 1521.

**15361 Neochamaejasmin A**

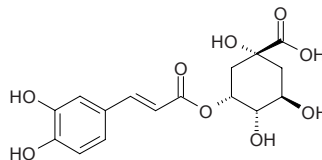
Neochamaejasmin A [90411-13-5] C<sub>30</sub>H<sub>22</sub>O<sub>10</sub> (542.50). mp 287°C (dec), [ $\alpha$ ]<sub>D</sub> = +129° (c = 1.0, ethanol). Pharm: Inhibits promotor of cancer (inhibits teleocidin activity)<sup>[900]</sup>; antimitotic and antifungal (*Pyricularia oryzae*, 200µg/mL, strong inhibition, 400µg/mL, complete inhibition)<sup>[4476]</sup>. Source: LANG DU *Stellera chamaejasme*. Ref: 900, 4476.

**15362 Neochebulagic acid**

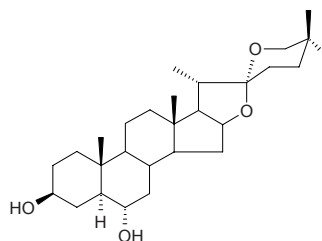
C<sub>41</sub>H<sub>32</sub>O<sub>28</sub> (972.70). Source: AN MO LE *Phyllanthus emblica* (leaf, branch). Ref: 3094.

**15363 Neochlorogenic acid**

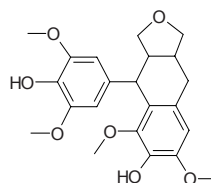
5-*O*-Caffeoylquinic acid [906-33-2] C<sub>16</sub>H<sub>18</sub>O<sub>9</sub> (354.32). mp 218~219°C. Source: BIAN YE TIE XIAN JUE *Adiantum caudatum*, DA CHE QIAN *Plantago major*, MENG GU SHAN LUO BO *Scabiosa comosa*, SHA ZAO *Elaeagnus angustifolia*, TANG LI *Pyrus betulaeifolia*, XIANG RI KUI JING *Helianthus annuus*, XIANG RI KUI YE *Helianthus annuus*. Ref: 6, 660.

**15364 Neochlorogenin**

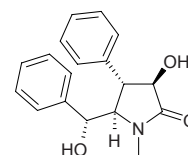
[511-91-1] C<sub>27</sub>H<sub>44</sub>O<sub>4</sub> (432.65). mp 269~270°C. Source: XIA YE LONG SHE LAN *Agave cantala*. Ref: 10.

**15365 Neociwujiaphenol**

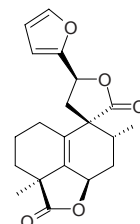
C<sub>22</sub>H<sub>26</sub>O<sub>7</sub> (402.45). White acicular crystals mp 197~199°C. Source: CI WU JIA YE *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*]. Ref: 835.

**15366 Neoclausenamide**

[114528-82-4] C<sub>18</sub>H<sub>19</sub>NO<sub>3</sub> (297.35). Colorless diamond crystals (methanol), mp 205~206°C. Pharm: Antihepatotoxin (mus, liver toxicosis induced by CCl<sub>4</sub>, reduces GPT). Source: HUANG PI YE *Clausena lansium*. Ref: 1182.

**15367 Neoclerodan-5,10-en-19,6β;20,12-diolide**

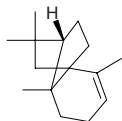
C<sub>20</sub>H<sub>22</sub>O<sub>5</sub> (342.40). mp 139~140°C, [ $\alpha$ ]<sub>D</sub><sup>18</sup> = +50° (c = 1.9, CHCl<sub>3</sub>). Source: CHANG SUI BA DOU *Croton macrostachys* (root). Ref: 3983.



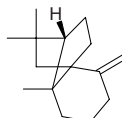


**15368  $\alpha$ -Neoclovene**

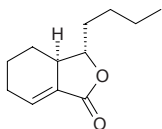
$C_{15}H_{24}$  (204.36). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2616, 5330.

**15369  $\beta$ -Neoclovene**

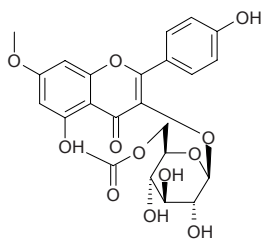
[56684-96-9]  $C_{15}H_{24}$  (204.36).  $[\alpha]_D^{25} = -30^\circ$  (MeOH). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2616, 5330.

**15370 Neocnidilide**

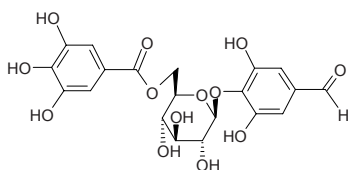
[4567-33-3]  $C_{12}H_{18}O_2$  (194.27). mp 24~27°C, bp 147~148°C/4mmHg. Pharm: Anticonvulsant (rat, cerebral section, inhibits release of Glu-transmitter with low toxin); antibacterial (*Aspergillus niger*, *Cochliobolus miyabeanus*, *Pyricularia oryzae*); antiasthmatic (gpg, *in vitro*, tracheal smooth muscle relaxant, stronger than papaverine hydrochloride). Source: CHA XIONG *Ligusticum sinense* cv. *chaxiong*, CHUAN XIONG *Ligusticum chuanxiong* [Syn. *Ligusticum wallichii*], GAO BEN *Ligusticum sinense* (25.27% in volatile oil). Ref: 2, 531, 1596, 1597, 1598, 1599, 5501.

**15371 Neocomplanoside**

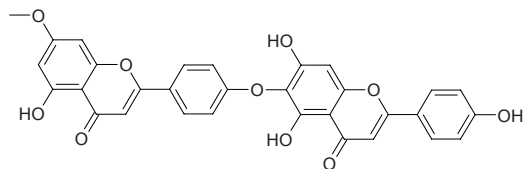
$C_{24}H_{24}O_{12}$  (504.45). Yellow acicular crystals, mp 217~219°C. Source: BIAN JING HUANG QI *Astragalus complanatus*. Ref: 123, 1521.

**15372 Neocretanin**

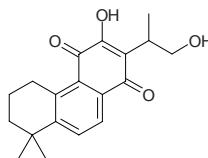
[67771-96-4]  $C_{20}H_{20}O_{13}$  (468.37). Needles +2H<sub>2</sub>O (H<sub>2</sub>O), mp 195~197°C (dec),  $[\alpha]_D^{23} = -63.8^\circ$  ( $c = 0.99$ , MeOH). Source: LI SHU PI *Castanea mollissima*. Ref: 1521, 2618.

**15373 Neocryptomerin**

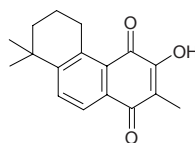
[20931-36-6]  $C_{31}H_{20}O_{10}$  (552.50). Source: LUO HAN SONG YE *Podocarpus macrophyllus*. Ref: 6.

**15374 Neocryptotanshinone**

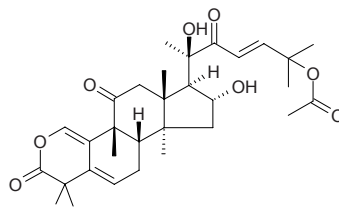
[109664-02-0]  $C_{19}H_{22}O_4$  (314.38). Orange-red needles, mp 165~167°C,  $[\alpha]_D^{23} = +29.8^\circ$  ( $c = 0.84$ , CHCl<sub>3</sub>). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 2619.

**15375 Neocryptotanshinone II**

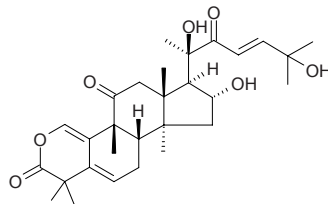
$C_{17}H_{18}O_3$  (270.33). Yellow acicular crystals, mp 129~130°C,  $[\alpha]_D^{25} = 3.8^\circ$  ( $c = 1$ , CHCl<sub>3</sub>). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 769.

**15376 Neocucurbitacin A**

$C_{31}H_{42}O_8$  (542.68). Amorphous powder,  $[\alpha]_D = +71.3^\circ$  ( $c = 0.46$ , CHCl<sub>3</sub>). Pharm: Polyoma enhancer binding protein 2aA (PEBP2aA) inhibitor (hmn osteoblast-like cells Saos-2 cell line); osteoclastogenesis-inhibitory factor (OCIF) gene expression inhibitor (hmn osteoblast-like cells Saos-2 cell line). Source: NANG GAI SI GUA *Luffa operculata*. Ref: 4136.

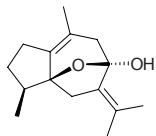
**15377 Neocucurbitacin B**

$C_{29}H_{40}O_7$  (500.64). Amorphous powder,  $[\alpha]_D = +82.0^\circ$  ( $c = 0.50$ , CHCl<sub>3</sub>). Source: NANG GAI SI GUA *Luffa operculata*. Ref: 4136.

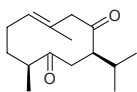


**15378 Neocurcumenol**

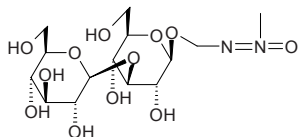
$C_{15}H_{22}O_2$  (234.34). Colorless oil,  $[\alpha]_D^{25} = +15.3^\circ$  ( $c = 2.00$ ,  $CHCl_3$ ). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS,  $100\mu\text{mol/L}$ ,  $\text{InRt} = (45.4 \pm 2.2)\%$ , control  $L$ -NMMA,  $100\mu\text{mol/L}$ ,  $\text{InRt} = (79.2 \pm 0.9)\%$ ,  $p < 0.01$ ). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**15379 Neocurdione**

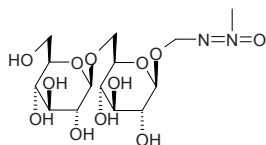
$C_{15}H_{24}O_2$  (236.36). **Pharm:** NO production inhibitor (mus peritoneal macrophages, induced by LPS,  $100\mu\text{mol/L}$ ,  $\text{InRt} = (50.4 \pm 2.3)\%$ , control  $L$ -NMMA,  $100\mu\text{mol/L}$ ,  $\text{InRt} = (79.2 \pm 0.9)\%$ ,  $p < 0.01$ ). **Source:** PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*]. **Ref:** 4150.

**15380 Neocycasin A**

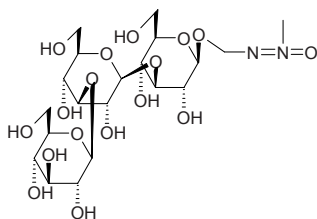
$C_{14}H_{26}N_2O_{12}$  (414.37). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15381 Neocycasin B**

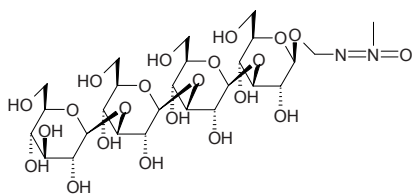
$C_{14}H_{26}N_2O_{12}$  (414.37). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15382 Neocycasin C**

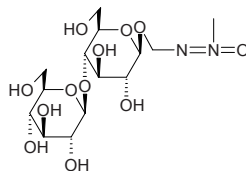
$C_{20}H_{36}N_2O_{17}$  (576.51). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15383 Neocycasin D**

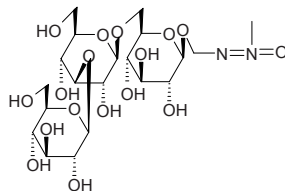
$C_{26}H_{46}N_2O_{22}$  (738.66). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15384 Neocycasin E**

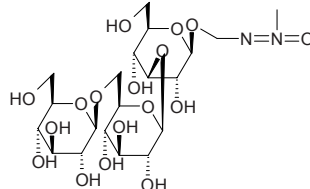
$C_{14}H_{26}N_2O_{12}$  (414.37). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15385 Neocycasin F**

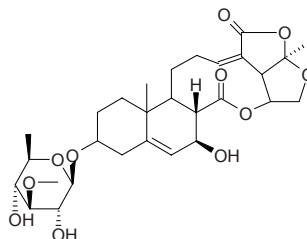
$C_{20}H_{36}N_2O_{17}$  (576.51). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15386 Neocycasin G**

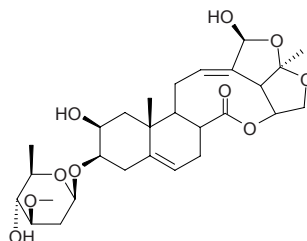
[2288-28-0]  $C_{20}H_{36}N_2O_{17}$  (576.51). **Source:** SU TIE SHU GUO *Cycas revoluta*. **Ref:** 6.

**15387 Neocynanversicoside**

$C_{29}H_{40}O_{11}$  (564.64). **Source:** WAN SHENG BAI WEI *Cynanchum versicolor*. **Ref:** 2620.

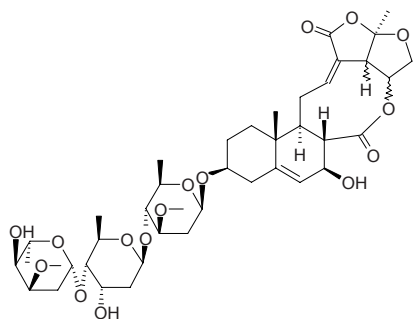
**15388 Neocynapanogenin C 3-O-β-D-oleandropyranoside**

$C_{28}H_{40}O_{10}$  (536.63). Colorless powder. **Source:** XU CHANG QING *Cynanchum paniculatum*. **Ref:** 2264.

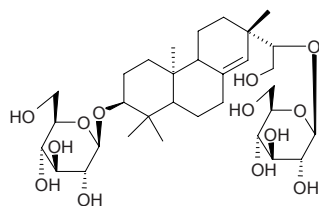


**15389 Neocynapanoside A**

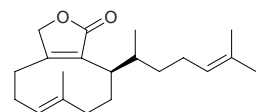
$C_{41}H_{60}O_{16}$  (808.93). Amorphous powder, mp 105~108°C,  $[\alpha]_D = -57.3^\circ$  ( $c = 1.54$ ,  $CHCl_3$ ). Source: XU CHANG QING *Cynanchum paniculatum*. Ref: 2621.

**15390 Neodarutoside**

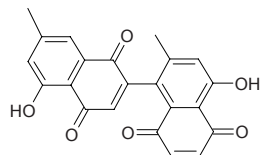
$C_{32}H_{54}O_{13}$  (646.78). Source: MAO GENG XI XIAN *Siegesbeckia orientalis* var. *glabrescens* [Syn. *Siegesbeckia glabrescens*]. Ref: 143, 2622.

**15391 Neodictyolactone**

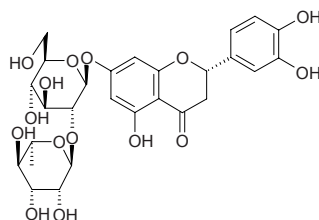
$C_{20}H_{30}O_2$  (302.46).  $[\alpha]_D^{20} = -35^\circ$  ( $c = 0.30$ ,  $CH_2Cl_2$ ). Source: XIAN ZHUANG WANG DI ZAO *Dictyota linearis*. Ref: 3818.

**15392 Neodiospyrin**

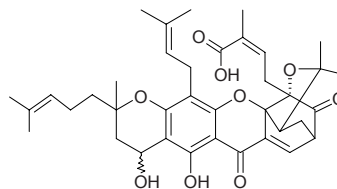
[33916-25-5]  $C_{22}H_{14}O_6$  (374.35). mp 253~254°C. Source: SHI GEN *Diospyros kaki*. Ref: 6.

**15393 Neoeriocitrin**

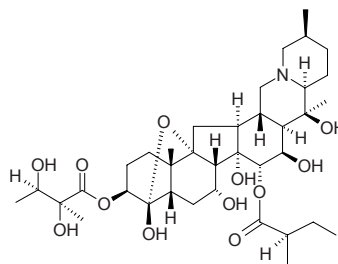
[13241-32-2]  $C_{27}H_{32}O_{15}$  (596.55). Source: *Citrus* sp. Ref: 658.

**15394 Neogambogic acid**

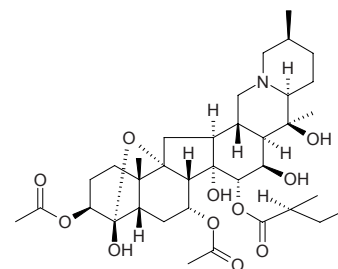
[93772-31-7]  $C_{38}H_{46}O_9$  (646.78). Yellow. Source: TENG HUANG *Garcinia morella* (dried balsam: content scope of 9 batch samples = 9.55%~22.22%, mean content = 14.98%)<sup>[5508]</sup>, TENG HUANG SHU *Garcinia hanburyi*<sup>[2623]</sup>. Ref: 2623, 5508.

**15395 Neogermbudine**

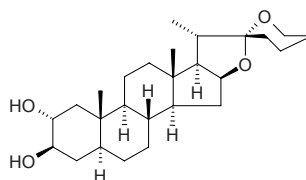
[595-64-2]  $C_{37}H_{59}NO_{12}$  (709.88). Sericate crystals (benzene), mp 149~152°C,  $[\alpha]_D^{25} = -12^\circ$  ( $c = 1$ , pyridine). Pharm: Antihypertensive (anesthetic dog, 2mg/(kg·min), iv, 10min, blood pressure lowered by 30% on average). Source: LV LI LU *Veratrum viride*, BAI LI LU *Veratrum album*. Ref: 661.

**15396 Neogermitrine**

$C_{36}H_{55}NO_{11}$  (677.84). Colorless long bar crystals or clustered acicular crystals (diluting acetone), mp 234~235°C,  $[\alpha]_D^{24} = -77^\circ$  ( $c = 1.0$ , pyridine). Pharm: Reduces myocardial contractility and antihypertensive (dog, iv); used in treatment of myasthenia gravis. Source: AI XI SHOU SHI LI LU *Veratrum eschscholtzii*, LIU SU LI LU *Veratrum fimbriatum*, LV LI LU *Veratrum viride*. Ref: 658.

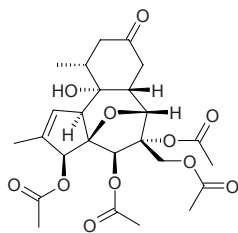
**15397 Neogitogenin**

[6811-13-8]  $C_{27}H_{44}O_4$  (432.65). Source: ZHI MU *Anemarrhena asphodeloides*. Ref: 2.

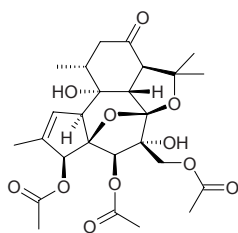


**15398 Neoglabrescin A tetraacetate**

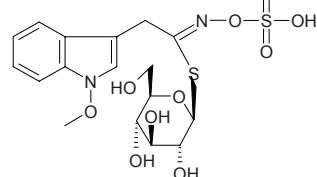
$C_{26}H_{32}O_{11}$  (508.53). Colorless crystals (acetone-petroleum ether), mp 247~248°C,  $[\alpha]_D^{20} = -64.9^\circ$  ( $c = 0.7$ ,  $CHCl_3$ ). Source: *Neoboutonia glabrescens*. Ref: 3441.

**15399 Neoglabrescin B triacetate**

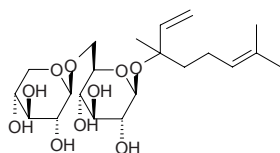
$C_{26}H_{34}O_{11}$  (522.55). Colorless crystals (acetone-petroleum ether), mp 215~216°C,  $[\alpha]_D^{20} = +8.9^\circ$  ( $c = 0.09$  MeOH). Source: *Neoboutonia glabrescens*. Ref: 3441.

**15400 Neoglucobrassicin**

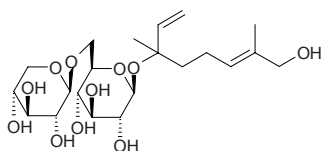
[5187-84-8]  $C_{17}H_{22}N_2O_{10}S_2$  (478.50). Source: BAO ZI GAN LAN *Brassica oleracea* var. *gemmifera*, DA QING YE *Isatis indigotica*, JING HUA HUA YE CAI *Brassica oleracea* var. *botrytis* subvar. *cauliflora*, JU SAN HUA YE CAI *Brassica oleracea* var. *botrytis* subvar. *cymosa*, PIE LAN *Brassica oleracea* var. *gongylodes*, OU ZHOU YOU CAI *Brassica napus*, ZUAN GUO SUAN JIE *Sisymbrium officinale*. Ref: 2.

**15401 Neohancoside A**

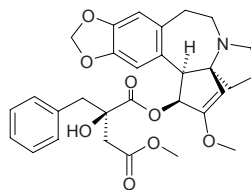
$C_{21}H_{36}O_{10}$  (448.52). White amorphous powder, mp 84~86°C (methanol). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 244.

**15402 Neohancoside B**

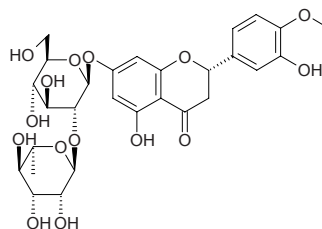
8-Hydroxy-linalool-3-O- $\beta$ -D-xylopyranosyl(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside  $C_{21}H_{36}O_{11}$  (464.51). Source: HUA BEI BAI QIAN *Cynanchum hancockianum*. Ref: 244.

**15403 Neoharringtonine**

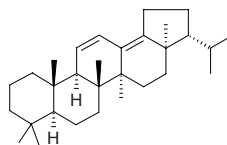
[142748-51-4]  $C_{30}H_{33}NO_8$  (535.60). Pharm: Antineoplastic (leukemia). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2, 2630.

**15404 Neohesperidin**

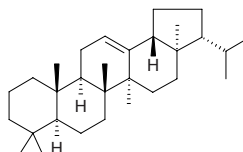
[13241-33-3]  $C_{28}H_{34}O_{15}$  (610.57). mp 234~235°C, 244°C. Pharm: Bitter principle. Source: GOU JU ZHI SHI *Poncirus trifoliata*, NING MENG PI *Citrus limon*, WU HE MI JU *Citrus unshiu*, ZHI SHI *Citrus aurantium*. Ref: 2, 658, 660.

**15405 11,13(18)-Neohopadiene**

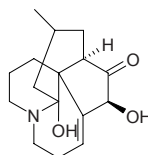
Wallichienene [3608-05-7]  $C_{30}H_{48}$  (408.72). Crystals ( $CHCl_3$ /MeOH), mp 213~215°C,  $[\alpha]_D = +42^\circ$ . Source: GAO SHAN TIAO JUE *Oleandra wallichii*, TIE SI QI *Adiantum pedatum*. Ref: 6, 1521.

**15406 12-Neohopene**

[2734-37-4]  $C_{30}H_{50}$  (410.73). Crystals ( $CHCl_3$ /MeOH), mp 134~137°C, 210~211°C,  $[\alpha]_D = +18.4^\circ$  ( $CHCl_3$ ),  $[\alpha]_D = +41.1^\circ$  ( $CHCl_3$ ). Source: DA YE GU SUI BU *Davallia divaricata* [Syn. *Davallia formosana*; *Davallia orientalis*], TIE SI QI *Adiantum pedatum*, *Adiantum* spp. Ref: 6, 1521, 2722.

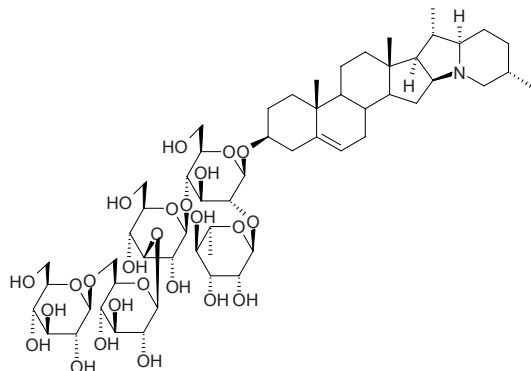
**15407 Neohuperzinine**

$C_{16}H_{23}NO_3$  (277.37). Colorless needles,  $[\alpha]_D^{22} = -48.2^\circ$  ( $c = 0.1037$ , EtOH). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 2245.

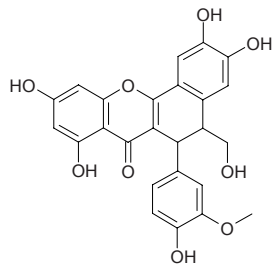


**15408 Neohyacinthoside**

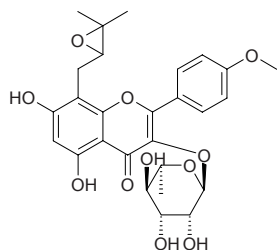
Solanidine-3-*O*- $\alpha$ -*L*-rhamnopyranosyl-(1 $\rightarrow$ 2)-[ $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 3)- $\beta$ -*D*-glucopyranosyl-(1 $\rightarrow$ 4)] $\beta$ -*D*-glucopyranoside C<sub>57</sub>H<sub>93</sub>NO<sub>25</sub> (1192.37). White powder, mp 262~265°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -25.9° (*c* = 0.29, pyridine). Source: BAI HE *Lilium brownii* var. *viridulum* [Syn. *Lilium brownii* var. *colchesteri*]. Ref: 93.

**15409 Neohydncarpin**

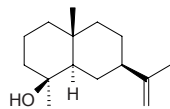
[71417-57-7] C<sub>25</sub>H<sub>20</sub>O<sub>9</sub> (464.43). Yellow powder (benzene/acetone), mp 235~237°C, [ $\alpha$ ]<sub>D</sub> = -20.3° (*c* = 0.59, MeOH). Pharm: Cytotoxic (mus, L<sub>1210</sub>; hmn: KB, colon glandular cancer, bone cancer, HeLa-S3 cervical cancer; Tmolt3 leukaemia cells). Source: WEI SHI DA FENG ZI *Hydnocarpus wightiana*. Ref: 2624, 2625.

**15410 Neocariin**

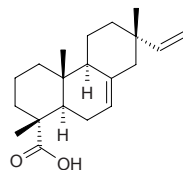
C<sub>27</sub>H<sub>30</sub>O<sub>11</sub> (530.53). Yellow powder, mp 185~187°C. Source: YIN YANG HUO *Epimedium brevicornum* Ref: 4427.

**15411 Neointermedeol**

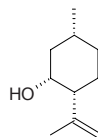
[5945-72-2] C<sub>15</sub>H<sub>26</sub>O (222.37). Oil, bp 85~87°C/0.5mmHg, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +7.5° (*c* = 2.6, EtOH). Source: REN SHEN *Panax ginseng* [Syn. *Panax schinseng*]. Ref: 2626, 2627.

**15412 Neoisodextropimaric acid**

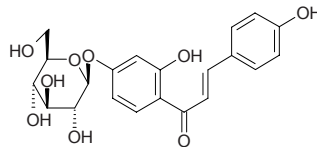
C<sub>20</sub>H<sub>30</sub>O<sub>2</sub> (302.46). Pharm: Antibacterial; cytotoxic (inhibition of TPA-induced ornithine decarboxylase activity with cultured mouse epidermal 308 cells)<sup>[5038]</sup>. Source: BEI MEI YA BAI *Thuja occidentalis*, DU SONG SHI *Juniperus rigida*, AN CI BAI *Juniperus conferta*. Ref: 658, 5038.

**15413 Neoisopulegol**

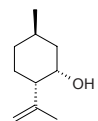
C<sub>10</sub>H<sub>18</sub>O (154.25). Source: YU XIANG CAO *Mentha rotundifolia*. Ref: 6.

**15414 Neoisoliquiritin**

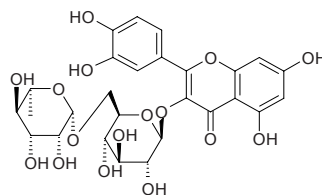
Isoliquirittigenin-4- $\beta$ -glucoside [59122-93-9] C<sub>21</sub>H<sub>22</sub>O<sub>9</sub> (418.40). mp 228~230°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**15415 Neoisopulegol**

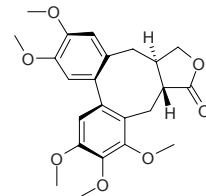
[20549-46-6] C<sub>10</sub>H<sub>18</sub>O (154.25). bp (+) 95°C/17mmHg. Source: YU XIANG CAO *Mentha rotundifolia*. Ref: 6.

**15416 Neoisorutin**

[36535-79-2] C<sub>27</sub>H<sub>30</sub>O<sub>16</sub> (610.53). Source: LUO BU MA *Apocynum venetum*, PAO NANG CAO *Physoclaina physaloides*. Ref: 6.

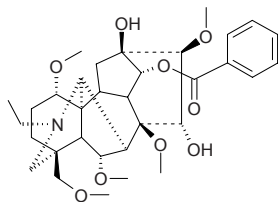
**15417 Neoisostegane**

[87084-98-8] C<sub>23</sub>H<sub>26</sub>O<sub>7</sub> (414.46). Pharm: Antineoplastic; cytotoxic (KB, ED<sub>50</sub> = 6.6µg/mL). Source: WU JIA QIAN HU *Steganotaenia araliacea*. Ref: 658, 1729.

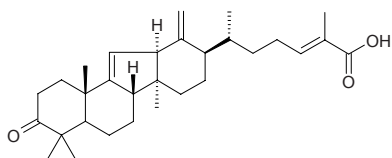


**15418 Neojiangyouaconitine**

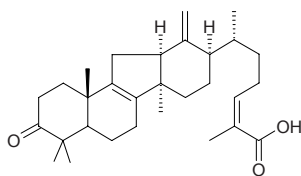
Aconitane-13,14,15-trihydroxyl,20-ethyl-1,6,8,16-tetramethoxy-4-(methoxymethyl)-14-benzoate(1 $\alpha$ ,6 $\alpha$ ,14 $\alpha$ ,15 $\alpha$ ,16 $\beta$ ) C<sub>33</sub>H<sub>47</sub>NO<sub>9</sub> (601.74). White lamellar crystals, mp 201~204°C, [ $\alpha$ ]<sub>D</sub><sup>14.4</sup> = -9.46° (*c* = 0.22, methanol). Source: FU ZI *Aconitum carmichaeli*. Ref: 239.

**15419 Neokadsuranic acid A**

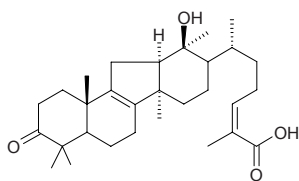
[123929-80-6] C<sub>30</sub>H<sub>44</sub>O<sub>3</sub> (452.68). Colorless oil, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -35.0° (*c* = 0.1, CHCl<sub>3</sub>). Pharm: Antihypercholesterolemic (inhibits biosynthesis of cholesterol); antineoplastic<sup>[2523]</sup>, anti-HIV<sup>[2523]</sup>. Source: YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*], CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1034, 2436, 2523, 2628.

**15420 Neokadsuranic acid B**

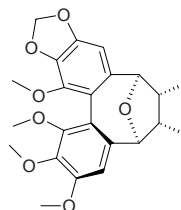
[123828-59-1] C<sub>30</sub>H<sub>44</sub>O<sub>3</sub> (452.68). [ $\alpha$ ]<sub>D</sub><sup>18</sup> = +37.4° (*c* = 0.11, chloroform). Pharm: Antihypercholesterolemic (inhibits biosynthesis of cholesterol). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1034, 1150.

**15421 Neokadsuranic acid C**

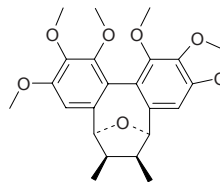
[123828-60-4] C<sub>30</sub>H<sub>46</sub>O<sub>4</sub> (470.69). Amorphous powder, [ $\alpha$ ]<sub>D</sub><sup>29</sup> = +42.0° (*c* = 0.07, ethanol). Pharm: Antihypercholesterolemic (inhibits biosynthesis of cholesterol). Source: CHANG GENG NAN WU WEI ZI *Kadsura peltigera* [Syn. *Kadsura longipedunculata*]. Ref: 1034, 1150.

**15422 Neokadsuranin**

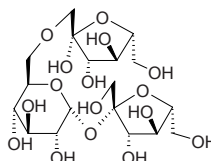
[115181-68-5] C<sub>23</sub>H<sub>26</sub>O<sub>7</sub> (414.46). Pharm: Antineoplastic (screened as potential antitumor promoters, EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = (4.7±0.4)% (positive control value 32pmol, 20ng TPA=100%), viability of Raji cells = 70%)<sup>[4644]</sup>. Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], NEI NAN WU WEI ZI *Kadsura interior* (stem). Ref: 2436, 4644.

**15423 Neokadsuranin**

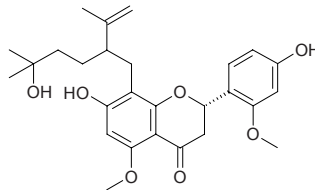
[115181-68-5] C<sub>23</sub>H<sub>26</sub>O<sub>7</sub> (414.46). Crystals (Et<sub>2</sub>O), mp 157~159°C, [ $\alpha$ ]<sub>D</sub> = 0° (CHCl<sub>3</sub>). Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*]. Ref: 2629.

**15424 Neokestose**

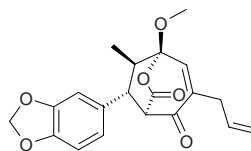
[3688-75-3] C<sub>18</sub>H<sub>32</sub>O<sub>16</sub> (504.45). Source: GE CONG *Allium victorialis*. Ref: 6.

**15425 Neokurarinol**

C<sub>27</sub>H<sub>34</sub>O<sub>7</sub> (470.57). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2, 1521.

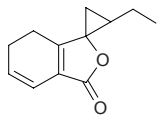
**15426 Neolignan in Magnolia denudata**

C<sub>20</sub>H<sub>20</sub>O<sub>6</sub> (356.38). Source: YU LAN *Magnolia denudata* [Syn. *Magnolia heptapata*]. Ref: 4439.

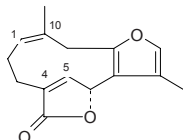


**15427 Neoligustilide**

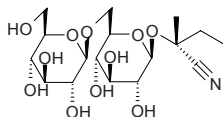
$C_{12}H_{14}O_2$  (190.24). Colorless massive crystals, mp 58–60°C. Source: LIAO GAO BEN *Ligusticum jeholense*. Ref: 343.

**15428 Neolinderalactone**

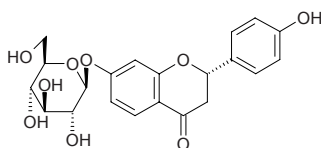
[26379-18-0]  $C_{15}H_{16}O_3$  (244.29). Prisms (MeOH), mp 116–118°C,  $[\alpha]_D^{25} = +100^\circ$  ( $c = 1.09$ , EtOH).660. Source: WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. Ref: 1521.

**15429 Neolinustatin**

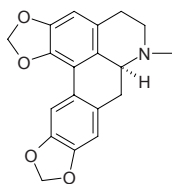
$C_{17}H_{29}NO_{11}$  (423.42). Pharm: Toxin. Source: YA MA *Linum usitatissimum*. Ref: 658.

**15430 Neoliquiritin**

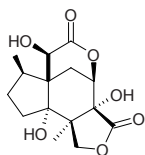
[5088-75-5]  $C_{21}H_{22}O_9$  (418.40). mp 164–166°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**15431 Neolitsine**

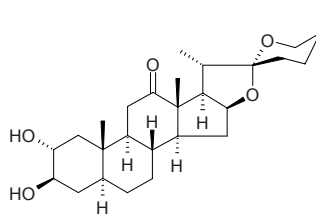
[2466-42-4]  $C_{19}H_{17}NO_4$  (323.35). Needles (Me<sub>2</sub>CO), mp 149–150°C,  $[\alpha]_D = +56.5^\circ$  ( $c = 1.57$ , CHCl<sub>3</sub>). Source: MEI LI XIN MU JIANG ZI *Neolitsea pulchella*, WU YE TENG *Cassytha filiformis*, YUE GUI YE *Laurus nobilis*. Ref: 1521, 2601.

**15432 Neomajucin**

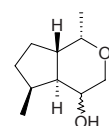
[114687-98-8]  $C_{15}H_{20}O_7$  (312.32). Colorless octahedron (EtOAc), mp 220–222°C,  $[\alpha]_D^{24} = -75^\circ$  ( $c = 0.25$ , dioxane). Pharm: Spasm action (picrotoxin-like); LD<sub>50</sub> = 12.2mg/kg. Source: DA BA JIAO *Illicium majus* (peel), JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.00014%dw)<sup>[4621]</sup>. Ref: 2631, 2751, 4621.

**15433 Neomanogenin**

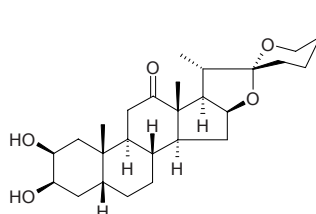
$C_{27}H_{42}O_5$  (446.63). mp 242°C. Source: TIAO WEN LONG SHE LAN *Agave striata*. Ref: 2503.

**15434 Neomatatabiol**

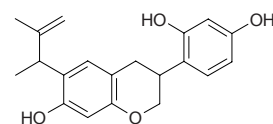
Dihydronepetalactol [21699-53-6]  $C_{10}H_{18}O_2$  (170.25). bp 95°C/5mmHg. Pharm: Attracts adult male dayfly (*Chrysopa septempunctata*). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6, 658.

**15435 Neomexogenin**

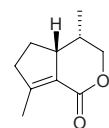
$C_{27}H_{42}O_5$  (446.63). mp 221°C. Source: *Agave roezliana*. Ref: 2503.

**15436 Neomillinol**

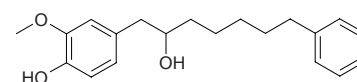
$C_{20}H_{22}O_4$  (326.40). Semisolid,  $[\alpha]_D^{25} = -6^\circ$  ( $c = 0.1$ , MeOH). Pharm: Antibacterial. Source: ZONG ZHUANG JI XUE TENG *Milletia racemosa*. Ref: 2734.

**15437 Neonepetalactone**

[24190-25-8]  $C_{10}H_{14}O_2$  (166.22). Source: MU TIAN LIAO *Actinidia polygama*. Ref: 6.

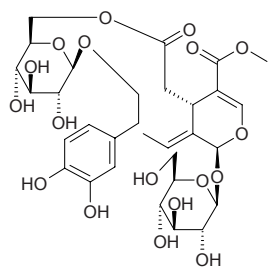
**15438 Neonootkatol**

$C_{20}H_{26}O_3$  (314.43). Yellow oil Source: YI ZHI REN *Alpinia oxyphylla*. Ref: 796.

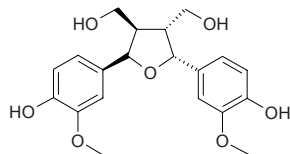


**15439 Neonuezhenide**

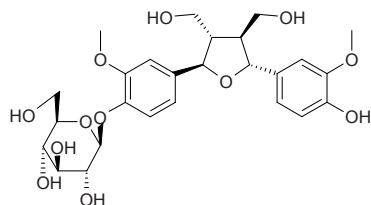
[96382-91-1]  $C_{31}H_{42}O_{18}$  (702.67). Crystals (as nona-Ac compound), mp 85–86°C (nona-Ac compound),  $[\alpha]_D = -93.5^\circ$  ( $CHCl_3$ , nona-Ac compound). **Pharm:** Antiviral (Help2 cells, Para-3,  $IC_{50} = 72.9\mu g/mL$ , TI = 2.0; MDCK cells, Flu-A, inactive; Vero cells, SV-1, inactive)<sup>[4141]</sup>; anti-hemolysis (rat, red blood cell *in vitro*, 2,2'-azo-bis-(2-amidinopropane)dihydrochloride induced,  $IC_{50} = 35.0\mu mol/L$ , control Trolox,  $IC_{50} = 55.0\mu mol/L$ )<sup>[4141]</sup>; anti-hemolysis (against hemolysis of red blood cells induced by AAPH free radicals,  $IC_{50} = 9.3\sim 37.5\mu mol/L$ )<sup>[3545]</sup>. **Source:** NV ZHEN ZI *Ligustrum lucidum*, RI BEN NV ZHEN *Ligustrum japonicum*, **Ref:** 2633, 3545, 4141.

**15440 Neoolivil**

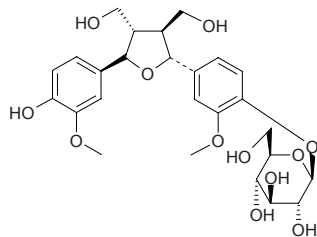
[77790-55-7]  $C_{20}H_{24}O_7$  (376.41). Oil. **Source:** YI ZHU QIAN MA *Urtica dioica*, *Thymus longiflorus*. **Ref:** 2634, 2635.

**15441 7R,7'R,8S,8'S-(+)-Neo-olivil-4-O-β-D-glucopyranoside**

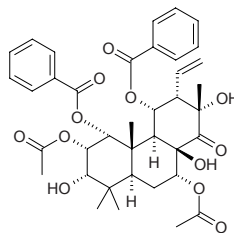
$C_{26}H_{34}O_{12}$  (538.55). Amorphous powder,  $[\alpha]_D^{24} = +6.4^\circ$  ( $c = 0.110$ , MeOH). **Source:** RI BEN ZHANG YA CAI *Swertia japonica*. **Ref:** 2528.

**15442 Neoolivil-4-O-β-D-glucoside**

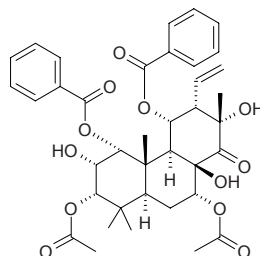
$C_{26}H_{34}O_{12}$  (538.55). **Source:** YI ZHU QIAN MA *Urtica dioica*. **Ref:** 2636.

**15443 Neoorthosiphol A**

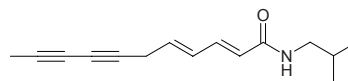
$C_{38}H_{44}O_{12}$  (692.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells,  $IC_{50} = 40.7\mu mol/L$ ; control *L*-NMMA,  $IC_{50} = 26.0\mu mol/L$ , Polymixin B,  $IC_{50} = 27.8\mu g/mL$ , Dexamethasone  $IC_{50} = 170\mu mol/L$ )<sup>[4322]</sup>; cytotoxic (antiproliferative, Colon26-L5,  $ED_{50} = 38.3\mu g/mL$ , control 5-Fluorouracil,  $ED_{50} = 0.015\mu g/mL$ ; HT1080,  $ED_{50} = 96.3\mu g/mL$ , 5-Fluorouracil,  $ED_{50} = 0.48\mu g/mL$ )<sup>[3053]</sup>. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0133%dw). **Ref:** 4322, 3053.

**15444 Neoorthosiphol B**

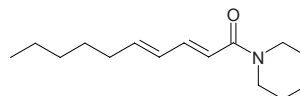
$C_{38}H_{44}O_{12}$  (692.77). **Pharm:** NO production inhibitor (LPS-activated macrophage-like J774.1 cells,  $IC_{50} = 14.0\mu mol/L$ ; control *L*-NMMA,  $IC_{50} = 26.0\mu mol/L$ , Polymixin B,  $IC_{50} = 27.8\mu g/mL$ , Dexamethasone  $IC_{50} = 170\mu mol/L$ )<sup>[4322]</sup>. **Source:** XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.0023%dw). **Ref:** 4322, 4741.

**15445 Neopellitorine A**

Undeca-2E,4Z-dien-7,9-diynoic acid isobutylamide  $C_{15}H_{19}NO$  (229.32). Yellow oil. **Pharm:** Insecticidal (*Sitophilus oryzae*, *Rhyzopertha dominica*, 200 $\mu g/mL$ , after 3 days mortality = 100%). **Source:** XIA YE QING HAO *Artemisia dracunculus* (aerial parts). **Ref:** 5218.

**15446 Neopellitorine B**

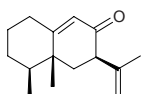
Deca-2E,4Z-dienoic acid piperidide  $C_{15}H_{25}NO$  (235.37). Yellow oil. **Pharm:** Insecticidal (*Sitophilus oryzae*, 200 $\mu g/mL$ , after 3 days, mortality = 70%; *Rhyzopertha dominica*, 200 $\mu g/mL$ , after 3 days, mortality = 50%)<sup>[5218]</sup>. **Source:** HU JIAO *Piper nigrum* (root: yield = 0.000029%dw), XIA YE QING HAO *Artemisia dracunculus* (aerial parts). **Ref:** 4753, 5218.



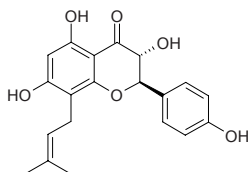


**15447 Neopetasone**

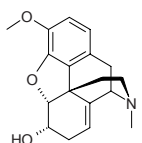
$C_{15}H_{22}O$  (218.34). Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**15448 Neophellamuretin**

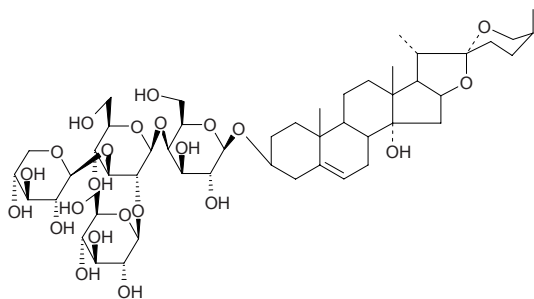
$C_{20}H_{20}O_6$  (356.38). Pharm: Antioxidant (DPPH radical scavenger, 250  $\mu$ mol/L, InRt = 20.9%; control Vitamin E,  $IC_{50}$  = 8.3  $\mu$ mol/L)<sup>[4722]</sup>. Source: TAI WAN HUANG BO *Phellodendron amurense* var. *wilsonii* (leaf: yield = 0.050% dw). Ref: 4722.

**15449 Neopine**

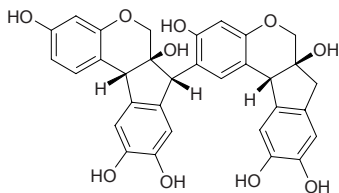
[467-14-1]  $C_{18}H_{21}NO_3$  (299.37). mp 127.0~127.5°C. Pharm: Analgesic and antispasmodic (similar action with codeine). Source: DA HONG YING SU *Papaver bracteatum*, YA PIAN *Papaver somniferum*, YING SU *Papaver somniferum*. Ref: 6, 658.

**15450 Neoprazerigenin A 3-O-β-D-lycotetraoside**

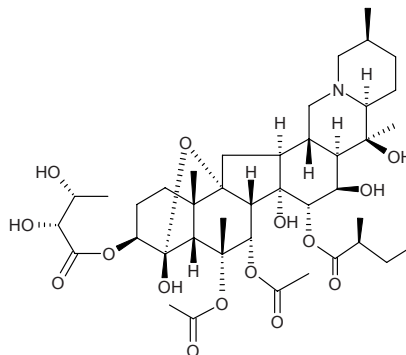
$C_{50}H_{80}O_{23}$  (1049.18). Source: XI BO LI YA LIAO *Polygonum sibiricum* [syn. *Persicaria sibirica*], HUANG JING *Polygonatum sibiricum*. Ref: 2637.

**15451 Neoprotosappanin**

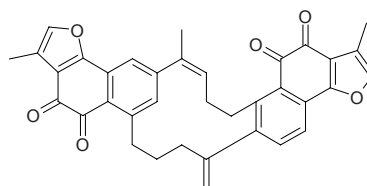
$C_{32}H_{26}O_{10}$  (570.56). Yellow amorphous solid,  $[\alpha]_D^{25}$  = -239.0° ( $c$  = 0.3, MeOH). Pharm: Xanthine oxidase inhibitor (noncompetitive inhibitory activity in concentration-dependent manner,  $IC_{50}$  = 38.3  $\mu$ mol/L,  $K_i$  = 29.2  $\mu$ mol/L, control Allopurinol, competitive type,  $IC_{50}$  = 2.5  $\mu$ mol/L,  $K_i$  = 1.80  $\mu$ mol/L). Source: SU MU *Caesalpinia sappan* (heartwood). Ref: 4494.

**15452 Neoprotoveratrine**

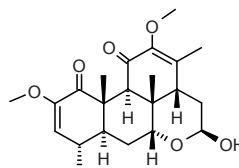
Protoveratrine B [124-97-0]  $C_{41}H_{63}NO_{15}$  (809.96). mp 269~270°C,  $[\alpha]_D$  = -39° (pyridine). Pharm: Antihypertensive (strong, but with high toxicity); emetic; toxin. Source: BAI LI LU *Veratrum album*, LV LI LU *Veratrum viride*. Ref: 658, 1521.

**15453 Neo-przewaquinone A**

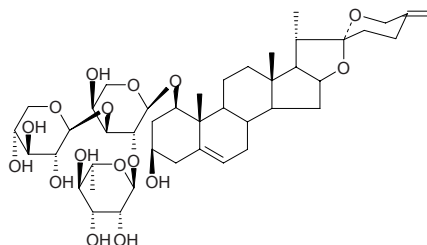
$C_{36}H_{28}O_6$  (556.62). Amaranth needles, mp 188~189°C. Source: GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 2464.

**15454 Neoquassin**

Nigakihemiacetal B  $C_{22}H_{30}O_6$  (390.48). Pharm: Extremely bitter. Source: CHU BAI PI *Ailanthus altissima*, KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], MEI ZHOU KU MU *Quassia amara*, *Picrasma* sp. Ref: 12, 658, 660.

**15455 Neoruscogenin 1-O-{O-α-L-rhamnopyranosyl-(1→2)-O-β-D-xylopyranosyl-(1→3)}-α-L-arabinopyranoside**

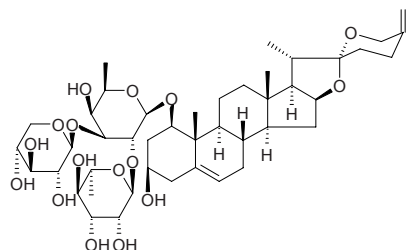
[180161-85-7]  $C_{43}H_{66}O_{16}$  (839.00). Amorphous solid,  $[\alpha]_D^{27}$  = -63.8° ( $c$  = 0.26, MeOH). Pharm: cAMP phosphodiesterase inhibitor ( $IC_{50}$  = 92  $\mu$ mol/L). Source: XIA WAN NUO LI *Nolina recurvata*. Ref: 1131.



**15456 Neoruscogenin 1-*O*-{*O*- $\alpha$ -*L*-rhamnopyranosyl-(1 $\rightarrow$ 2)-*O*-[ $\beta$ -*D*-xylopyranosyl-(1 $\rightarrow$ 3)]- $\beta$ -*D*-fucopyranoside}**

[180161-87-9] C<sub>44</sub>H<sub>68</sub>O<sub>16</sub> (853.02). Amorphous solid,  $[\alpha]_D^{27} = -45^\circ$  ( $c = 0.44$ , MeOH). **Pharm:** cAMP phosphodiesterase inhibitor (IC<sub>50</sub> = 161  $\mu$ mol/L).

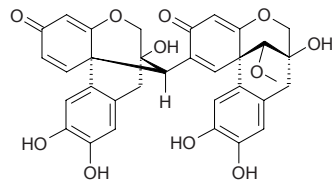
**Source:** XIA WAN NUO LI *Nolina recurvata*. **Ref:** 1131.



**15457 Neosappanone A**

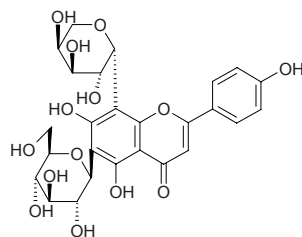
C<sub>32</sub>H<sub>28</sub>O<sub>11</sub> (600.58). **Pharm:** Xanthine oxidase inhibitor (competitive inhibitory activity in concentration-dependent manner, IC<sub>50</sub> = 29.7  $\mu$ mol/L, Ki = 16.3  $\mu$ mol/L, control Allopurinol, IC<sub>50</sub> = 2.5  $\mu$ mol/L, Ki = 1.80  $\mu$ mol/L).

**Source:** SU MU *Caesalpinia sappan* (heartwood). **Ref:** 4494.



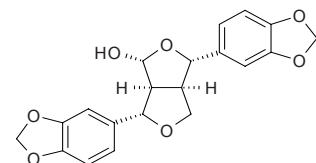
**15458 Neoschaftoside**

[61328-41-4] C<sub>26</sub>H<sub>28</sub>O<sub>14</sub> (564.50). **Pharm:** Insect phagostimulant (*Plant hoppers*). **Source:** JING MI *Oryza sativa*. **Ref:** 658.



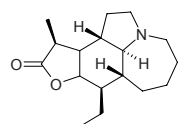
**15459 Neosesamin**

C<sub>20</sub>H<sub>18</sub>O<sub>7</sub> (370.36). Colorless acicular crystals mp 157~158°C. **Source:** TU SI ZI *Cuscuta chinensis*. **Ref:** 816.



**15460 Neostenine**

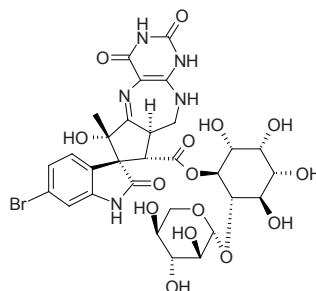
C<sub>17</sub>H<sub>27</sub>NO<sub>2</sub> (277.41). mp 90~92°C,  $[\alpha]_D^{20} = +73.6^\circ$  ( $c = 0.1$ , MeOH). **Pharm:** Antitussive (guinea pig cough model, 133  $\mu$ mol/kg ip, cough InRt = 77%,  $p < 0.001$ ). **Source:** BAI BU *Stemona tuberosa*. **Ref:** 5463.



**15461 Neosurugatoxin**

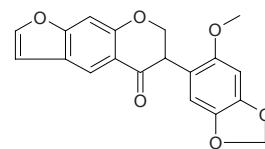
[80680-43-9] C<sub>30</sub>H<sub>34</sub>BrN<sub>5</sub>O<sub>15</sub> (784.53). **Pharm:** Mydriatic (mus, 0.03  $\mu$ g); toxin.

**Source:** RI BEN DONG FENG LUO *Babylonia japonica*. **Ref:** 658, 1521.



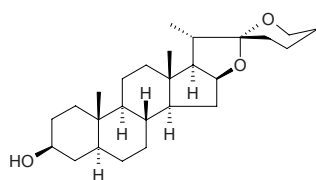
**15462 Neotenone**

Neorautenone C<sub>19</sub>H<sub>14</sub>O<sub>6</sub> (338.32). **Pharm:** Antiviral (HSV-1, 50  $\mu$ g/mL, InRt = 26.1%; HSV-2, 50  $\mu$ g/mL, InRt = 23.7%). **Source:** DI GUA ZI *Pachyrhizus erosus*. **Ref:** 4180.



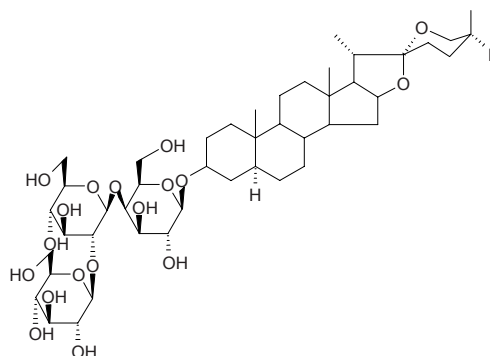
**15463 Neotigogenin**

[470-01-9] C<sub>27</sub>H<sub>44</sub>O<sub>3</sub> (416.65). mp 202~203°C. **Source:** JIAN MA *Agave sisalana*, NIAN YU XU *Smilax sieboldii*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], XIA YE LONG SHE LAN *Agave cantala*. **Ref:** 6, 10.



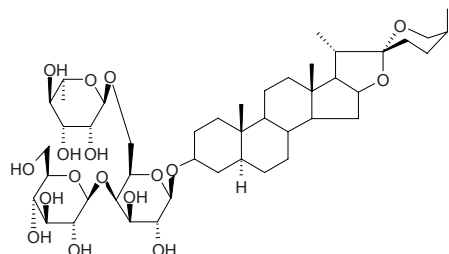
**15464 Neotigogenin-3-*O*- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 2)- $\beta$ -*D*-glucopyranosyl(1 $\rightarrow$ 4)- $\beta$ -*D*-galactopyranoside**

C<sub>45</sub>H<sub>74</sub>O<sub>18</sub> (903.08). **Source:** BAI MAO TENG *Solanum lyratum*. **Ref:** 2638.



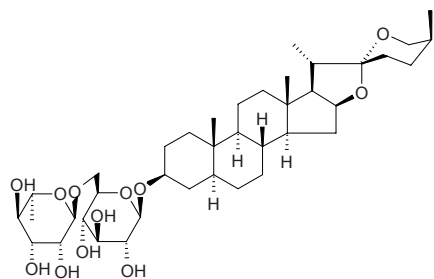
**15465 Neotigogenin-3-*O*- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)-*O*-[ $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 6)]- $\beta$ -D-galactopyranoside**

C<sub>45</sub>H<sub>74</sub>O<sub>17</sub> (887.08). Source: BA QIA *Smilax china* [Syn. *Smilax japonica*], NIU WEI CAI *Smilax riparia*. Ref: 2639.



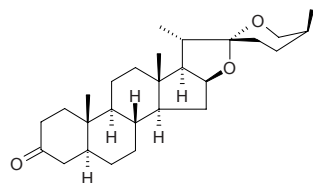
**15466 Neotigogenin-3-*O*- $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

C<sub>39</sub>H<sub>64</sub>O<sub>12</sub> (724.94). Source: BA QIA *Smilax china* [Syn. *Smilax japonica*], NIU WEI CAI *Smilax riparia*. Ref: 2639.



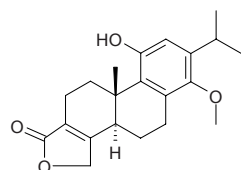
**15467 Neotigogenone**

C<sub>27</sub>H<sub>42</sub>O<sub>3</sub> (414.63). Source: JIAN MA *Agave sisalana*. Ref: 10.



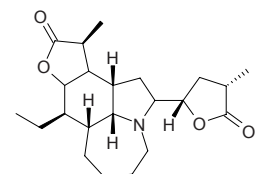
**15468 Neotriptophenolide**

[81827-74-9] C<sub>21</sub>H<sub>26</sub>O<sub>4</sub> (342.44). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.



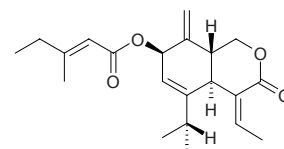
**15469 Neotuberostemonine**

C<sub>22</sub>H<sub>33</sub>NO<sub>4</sub> (375.51). [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +83.0° (*c* = 0.1, MeOH). Pharm: Antitussive (guinea pig cough model, 133  $\mu$ mol/kg ip, cough InRt = 85%, *p* < 0.001). Source: BAI BU *Stemona tuberosa*. Ref: 5463.



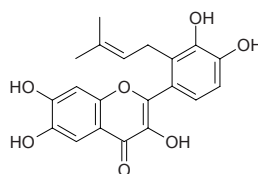
**15470 Neotussilagolactone**

[168482-85-7] C<sub>21</sub>H<sub>28</sub>O<sub>4</sub> (344.45). Colorless jelly, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = -37.2° (*c* = 0.1, CHCl<sub>3</sub>). Pharm: Platelet aggregation inhibitor (PAF trial, IC<sub>50</sub> = 26.7  $\mu$ mol/L). Source: KUAN DONG HUA *Tussilago farfara*. Ref: 2640, 2641.



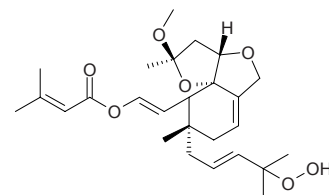
**15471 Neurulenol**

3,6,7,3',4'-Pentahydroxy-2'-isoprenylflavone [139163-16-9] C<sub>20</sub>H<sub>18</sub>O<sub>7</sub> (370.36). Dark yellow acicular crystals, mp 229~231°C. Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 171, 660.



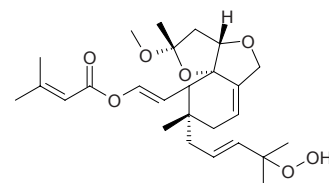
**15472 Neovibsanin D**

C<sub>26</sub>H<sub>38</sub>O<sub>7</sub> (462.59). Colorless paste, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = -66.1° (*c* = 0.30, CHCl<sub>3</sub>). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.



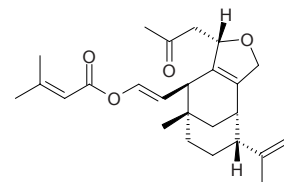
**15473 7-epi-Neovibsanin D**

C<sub>26</sub>H<sub>38</sub>O<sub>7</sub> (462.59). Colorless paste, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +24.2° (*c* = 0.70, CHCl<sub>3</sub>). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.



**15474 Neovibsanin G**

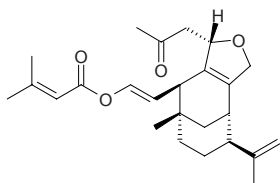
C<sub>25</sub>H<sub>34</sub>O<sub>4</sub> (398.55). Colorless paste, [ $\alpha$ ]<sub>D</sub><sup>23</sup> = +96.2° (*c* = 0.32, alcohol). Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.



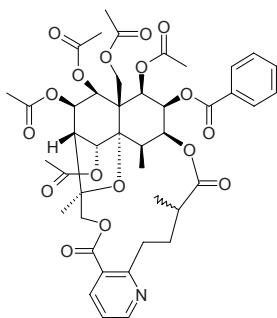
**15475 14-epi-Neovibsanin G**

$C_{25}H_{34}O_4$  (398.55). Colorless paste,  $[\alpha]_D^{23} = +136.2^\circ$  ( $c = 0.09$ , alcohol).

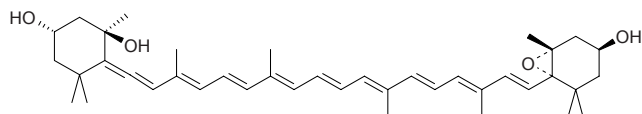
Source: RI BEN JIA MI *Viburnum awabuki*. Ref: 2530.

**15476 Neowilforine**

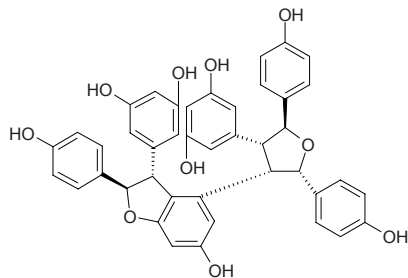
[121880-18-0]  $C_{43}H_{49}NO_{17}$  (851.87). Source: LEI GONG TENG *Tripterygium wilfordii*. Ref: 2.

**15477 Neoxanthin**

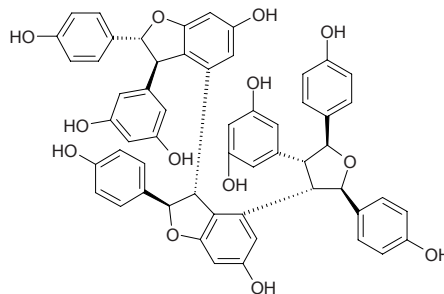
[30743-41-0]  $C_{40}H_{56}O_4$  (600.89). mp  $134^\circ\text{C}$ . Pharm: Yellow pigment. Source: DAO CAO *Oryza sativa*, HONG HAI JIAO *Capsicum annuum*, JIN QUE ER *Cytisus scoparius* [Syn. *Spartium scoparium*], JING MI *Oryza sativa*, MA TI YE *Caltha palustris*, SUAN SHUI CAO *Potamogeton perfoliatus*, TAO *Prunus persica*, YANG LI *Prunus domestica*, *Forsythia* sp., *Geum* sp., *Malus* sp. Ref: 6, 658.

**15478 Nepalensinol D**

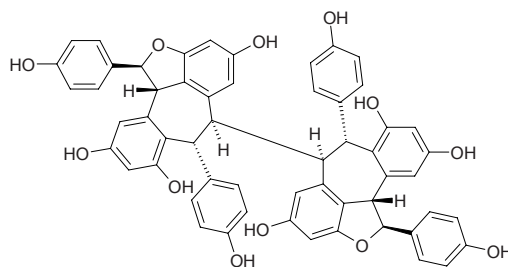
$C_{42}H_{34}O_{10}$  (698.73). Reddish brown powder, mp  $230^\circ\text{C}$  (dec),  $[\alpha]_D = -82.0^\circ$  ( $c = 0.3$ , MeOH). Pharm: Topoisomerase II inhibitor (hmn,  $IC_{50} = 14.8\mu\text{mol/L}$ , control Daunorubicin,  $IC_{50} = 9.1\mu\text{mol/L}$ ). Source: NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0003%dw). Ref: 1783.

**15479 Nepalensinol E**

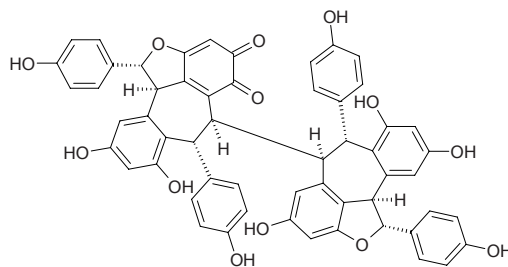
$C_{56}H_{44}O_{13}$  (924.97). Brown powder, mp  $250^\circ\text{C}$  (dec),  $[\alpha]_D = -307.8^\circ$  ( $c = 0.5$ , MeOH). Pharm: Topoisomerase II inhibitor (hmn,  $IC_{50} = 11.7\mu\text{mol/L}$ , control Daunorubicin,  $IC_{50} = 9.1\mu\text{mol/L}$ ). Source: NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0007%dw). Ref: 1783.

**15480 Nepalensinol F**

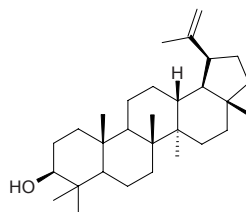
$C_{56}H_{42}O_{12}$  (906.95). Brown powder, mp  $> 300^\circ\text{C}$  (dec),  $[\alpha]_D = +26.3^\circ$  ( $c = 0.4$ , MeOH). Pharm: Topoisomerase II inhibitor (hmn,  $IC_{50} = 5.5\mu\text{mol/L}$ , control Daunorubicin,  $IC_{50} = 9.1\mu\text{mol/L}$ ). Source: NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0005%dw). Ref: 1783.

**15481 Nepalensinol G**

$C_{56}H_{40}O_{13}$  (920.94). Reddish brown powder, mp  $> 300^\circ\text{C}$  (dec),  $[\alpha]_D = +66^\circ$  ( $c = 0.1$ , MeOH). Pharm: Topoisomerase II inhibitor (hmn,  $IC_{50} > 50\mu\text{mol/L}$  inactive, control Daunorubicin,  $IC_{50} = 9.1\mu\text{mol/L}$ ). Source: NI BO ER SONG CAO *Kobresia nepalensis* (stem: yield = 0.0008%dw). Ref: 1783.

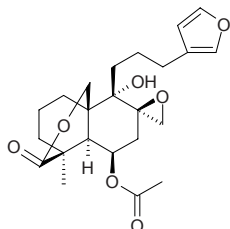
**15482 Nephehinol**

$3\beta$ -Hydroxy-18 $\beta$ ,19 $\alpha$ H-lup-20(29)-ene  $C_{30}H_{50}O$  (426.73). Source: BO TE LAN DA JI *Euphorbia portlandica* (whole herb). Ref: 5019.

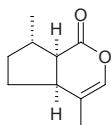


**15483 Nepetaefuran**

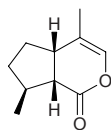
[29461-24-3]  $C_{22}H_{28}O_7$  (404.46). **Pharm:** Cytotoxic (leukemia cells L<sub>1210</sub> in tissue culture,  $IC_{50}$  = 50-60  $\mu$ g/mL)<sup>[4328]</sup>. **Source:** JING JIE YE SHI ER CAO *Leonotis nepetaefolia*, XI YE YI MU CAO *Leonurus sibiricus* (aerial parts). **Ref:** 1521, 4328.

**15484 Nepetalactone**

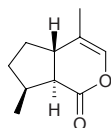
[21651-62-7]  $C_{10}H_{14}O_2$  (166.22). Oil,  $[\alpha]_D^{21}$  = +37° (CHCl<sub>3</sub>). **Source:** HONG CHE ZHOU CAO *Trifolium pratense*, JIA JING JIE *Nepeta cataria*, MU TIAN LIAO *Actinidia polygama*. **Ref:** 660, 1521.

**15485 cis-Nepetalactone**

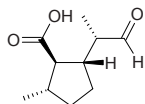
[21651-62-7]  $C_{10}H_{14}O_2$  (166.22). Oil,  $[\alpha]_D^{21}$  = +37°. **Pharm:** Anthelmintic; stimulant (animals of family Felidae). **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 658, 1521.

**15486 trans-Nepetalactone**

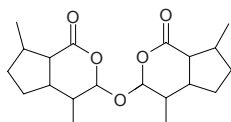
[17257-15-7]  $C_{10}H_{14}O_2$  (166.22). Oil,  $[\alpha]_D^{21}$  = -24.4° ( $c$  = 6.2, CHCl<sub>3</sub>). **Pharm:** Anthelmintic; stimulant (animals of family Felidae). **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 658, 1521.

**15487 Nepetalic acid**

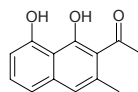
[21651-54-7]  $C_{10}H_{16}O_3$  (184.24). mp 75~76°C. **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 6.

**15488 Nepetalic anhydride**

$C_{21}H_{32}O_5$  (364.49). mp 139~140°C. **Source:** JIA JING JIE *Nepeta cataria*. **Ref:** 6.

**15489 Nepodin**

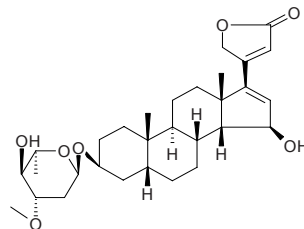
2-Acetyl-1,8-dihydroxy-3-methyl naphthalene; Musizin [3785-24-8]  $C_{13}H_{12}O_3$  (216.24). mp 162~163°C. **Pharm:** Antibacterial (*Bacillus subtilis*, MIC = 25  $\mu$ g/mL; *Sarcina* sp., MIC = 100  $\mu$ g/mL); antifungal (*Trichophyton rubrum*, MIC = 50  $\mu$ g/mL; *Candida albicans*, MIC = 100  $\mu$ g/mL). **Source:** DUN YE SUAN MO *Rumex obtusifolius*, NI BO ER YANG TI *Rumex nepalensis*, NIU SHE CAO *Rumex dentatus* (root: mean content = 0.143%), NIU XI XI *Rumex patientia* (root: mean content = 0.0055%)<sup>[5508]</sup>, OU SHU LI *Rhamnus frangula* [Syn. *Frangula alnus*], SUAN MO *Rumex acetosa* (root: mean content = 0.0108%)<sup>[5508]</sup>, YANG TI *Rumex japonicus* (root: mean content = 0.354%)<sup>[5508]</sup>. **Ref:** 6, 658, 1521, 5508.

**15490 Nereistoxin**

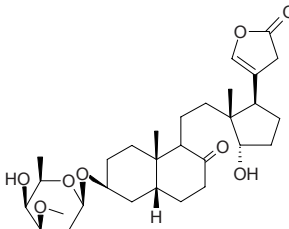
[1631-58-9]  $C_5H_{11}NS_2$  (149.28). **Pharm:** Neurotoxin (mammal, bird, reptile and fish); pesticide (*Musca domestica*, LD = 144mg/kg; American cockroach, LD = 68mg/kg; LD<sub>50</sub> (mus, iv, oxalate) = 33mg/kg. **Source:** YI ZU SUO SHA CAN *Lumbricones heteropoda*. **Ref:** 658.

**15491 Neriantin**

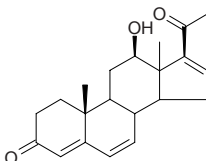
$C_{30}H_{44}O_7$  (516.68). mp 206~208°C. **Source:** JIA ZHU TAO *Nerium indicum*, OU ZHOU JIA ZHU TAO *Nerium oleander*. **Ref:** 6, 1521.

**15492 Neriaside**

[68165-55-9]  $C_{30}H_{46}O_8$  (534.70). Amorphous,  $[\alpha]_D$  = -17.6°. **Source:** *Nerium odorum*. **Ref:** 2642.

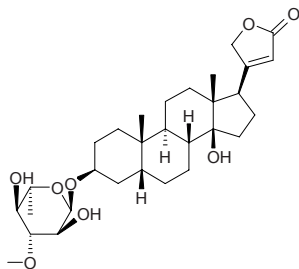
**15493 Neridienone A**

[53823-05-5]  $C_{21}H_{26}O_3$  (326.44). Crystals (Me<sub>2</sub>CO-Hexane), mp 210~211°C,  $[\alpha]_D$  = +71.5° (MeOH). **Source:** SHAN TENG *Anodendron affine*, XIANG JIA PI *Periploca sepium*, *Nerium odorum*. **Ref:** 2643, 2644, 2645.

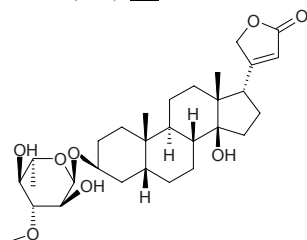


**15494 17 $\beta$ -Neriifolin**

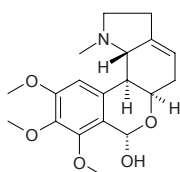
Neriifolin [466-07-9] C<sub>30</sub>H<sub>46</sub>O<sub>8</sub> (534.70). mp 218~225°C. **Pharm:** Cytotoxic (KB, ED<sub>50</sub> = 0.017 $\mu$ g/mL; BC, ED<sub>50</sub> = 0.048 $\mu$ g/mL; NCI-H187, ED<sub>50</sub> = 0.076 $\mu$ g/mL; control Ellipticine, ED<sub>50</sub> = 0.3~0.6 $\mu$ g/mL)<sup>[3777]</sup>; cytotoxic (antiproliferative hmn colon cancer assay)<sup>[5038]</sup>. **Source:** AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed), HUANG HUA JIA ZHU TAO *Thevetia neriifolia* [Syn. *Thevetia peruviana*] (seed: mean content = 2.00%<sup>[5508]</sup>), NIU XIN QIE ZI *Cerbera manghas*. **Ref:** 4, 5, 2594, 2782, 3777, 5038, 5508.

**15495 17 $\alpha$ -Neriifolin**

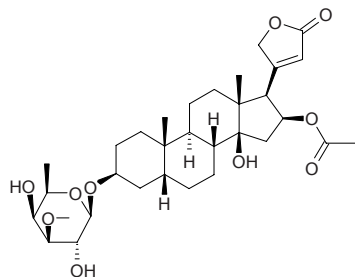
C<sub>30</sub>H<sub>46</sub>O<sub>8</sub> (534.70). **Pharm:** Cytotoxic (KB, ED<sub>50</sub> = 0.078 $\mu$ g/mL; BC, ED<sub>50</sub> = 0.049 $\mu$ g/mL; NCI-H187, ED<sub>50</sub> = 0.032 $\mu$ g/mL; control Ellipticine, ED<sub>50</sub> = 0.3~0.6 $\mu$ g/mL). **Source:** AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed). **Ref:** 3777.

**15496 Nerinine**

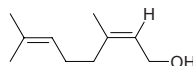
[481-44-7] C<sub>19</sub>H<sub>25</sub>NO<sub>5</sub> (347.41). mp 209~210°C. **Source:** GAN FENG CAO *Zephyranthes candida*. **Ref:** 6, 1521.

**15497 Neritaloside**

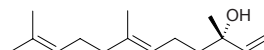
[465-13-4] C<sub>32</sub>H<sub>48</sub>O<sub>10</sub> (592.73). Fine needles (MeOH), mp 138~140°C. **Pharm:** Inhibits CNS (mus, ip 25mg/kg). **Source:** OU ZHOU JIA ZHU TAO *Nerium oleander*, PENG TE MAN DE MU *Mandevilla pentlandiana*, SHA MO QIANG WEI *Adenium obesum*. **Ref:** 2646, 2647, 2648.

**15498 Nerol**

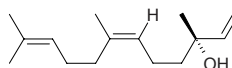
(Z)-3,7-Dimethyl-2,6-octadien-1-ol [106-25-2] C<sub>10</sub>H<sub>18</sub>O (154.25). bp 224~227°C. **Pharm:** Flavorant. **Source:** DAI DAI HUA *Citrus aurantium* var. *amara*, GUI HUA *Osmanthus fragrans*, JU PI *Citrus reticulata*, MEI GUI HUA *Rosa rugosa*, PI PA *Eriobotrya japonica*, SHENG JIANG *Zingiber officinale*, XIANG QING LAN *Dracocephalum moldavicum*. **Ref:** 2, 658.

**15499 E-Nerolidol**

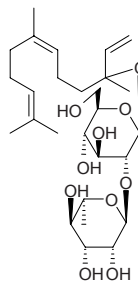
(+)-Nerolidol [7212-44-4] C<sub>15</sub>H<sub>26</sub>O (222.37). bp (+) 276°C. **Pharm:**  $\beta$ -Hexosaminidase inhibitor (RBL-2H3 cells, 100 $\mu$ mol/L, InRt = (11.8 $\pm$ 1.3)%,  $p < 0.05$ )<sup>[4221]</sup>. **Source:** SHENG JIANG *Zingiber officinale*, TU QIANG HUO *Hedychium coronarium* (rhizome). **Ref:** 2, 4221.

**15500 Z-Nerolidol**

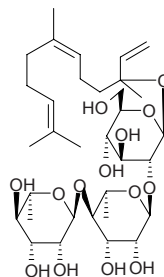
3,7,11-Trimethyl-1,6,10-dodecatrien-3-ol C<sub>15</sub>H<sub>26</sub>O (222.37). **Pharm:** Flavorant. **Source:** BI LU XIANG JIAO *Myroxylon pereirae*, DAI DAI HUA *Citrus aurantium* var. *amara*, DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], BI LU XIANG JIAO *Myroxylon pereirae*, PI PA *Eriobotrya japonica*, SHA REN *Amomum villosum*, SHENG JIANG *Zingiber officinale*, TIAN CHENG *Citrus sinensis*, ZHANG MU *Cinnamomum camphora*, ZHANG MU *Cinnamomum camphora*, ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. **Ref:** 2, 658.

**15501 Nerolidol-3-O- $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranoside**

C<sub>27</sub>H<sub>46</sub>O<sub>10</sub> (530.66). **Source:** PI PA YE *Eriobotrya japonica*. **Ref:** 2649.

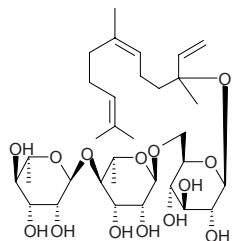
**15502 Nerolidol-3-O- $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 4)- $\alpha$ -L-rhamnopyranosyl(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranoside**

C<sub>33</sub>H<sub>56</sub>O<sub>14</sub> (676.81). **Source:** PI PA YE *Eriobotrya japonica*. **Ref:** 2649.



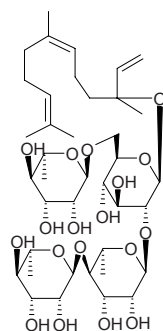
**15503 Nerolidol-3-O- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

C<sub>33</sub>H<sub>56</sub>O<sub>14</sub> (676.81). Source: PI PA YE *Eriobotrya japonica*. Ref: 2649.



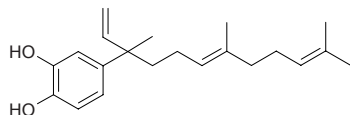
**15504 Nerolidol-3-O-{ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 4)- $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[ $\alpha$ -L-rhamnopyranosyl-(1 $\rightarrow$ 6)]- $\beta$ -D-glucopyranoside}**

C<sub>39</sub>H<sub>66</sub>O<sub>18</sub> (822.95). Source: PI PA YE *Eriobotrya japonica*. Ref: 2649.



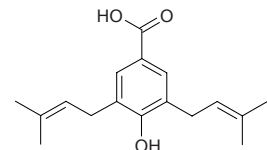
**15505 4-Nerolidylcatechol**

C<sub>21</sub>H<sub>30</sub>O<sub>2</sub> (314.47). Pharm: Myotoxic phospholipase A<sub>2</sub> (PLA<sub>2</sub>) inhibitor (*Bothrops asper*, IC<sub>50</sub> = 987 μmol/L). Source: SAN XING HU JIAO *Piper umbellatum* (branch), DUN YE HU JIAO *Piper peltatum* (branch). Ref: 5274.



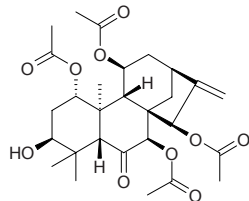
**15506 Nervogenic acid**

[17622-86-5] C<sub>17</sub>H<sub>22</sub>O<sub>3</sub> (274.36). Colorless acicular crystals, mp 94–96°C. Pharm: Antibacterial (*Bacillus subtilis* and *Micrococcus luteus* on TLC plate, MIC = 2.0 nmol/L). Source: JIAN XUE QING *Liparis nervosa*. Ref: 900.



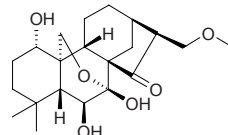
**15507 Nervosanin**

C<sub>28</sub>H<sub>38</sub>O<sub>10</sub> (534.61). mp 260–262°C, [α]<sub>D</sub><sup>20</sup> = +37.11° (c = 0.54, C<sub>5</sub>H<sub>5</sub>N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, XIAN HUA XIANG CHA CAI *Rabdosia adenantha* (leaf: yield = 0.0018% dw). Ref: 4067, 4640.



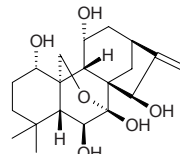
**15508 Nervosanin A**

C<sub>21</sub>H<sub>32</sub>O<sub>6</sub> (380.49). mp 200–202°C, [α]<sub>D</sub><sup>25</sup> = –82.09° (c = 0.2, MeOH). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 4067.



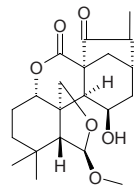
**15509 Nervosanin B**

C<sub>20</sub>H<sub>30</sub>O<sub>6</sub> (366.46). mp 258–260°C, [α]<sub>D</sub><sup>25</sup> = –54.73° (c = 0.33, C<sub>5</sub>H<sub>5</sub>N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 4067.



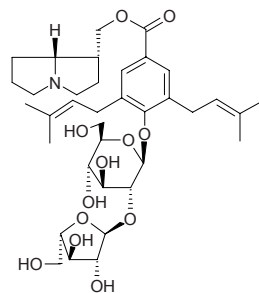
**15510 Nervosin**

C<sub>21</sub>H<sub>28</sub>O<sub>6</sub> (376.45). mp 266–268°C, [α]<sub>D</sub><sup>23</sup> = –149.8° (c = 0.27, C<sub>5</sub>H<sub>5</sub>N). Source: XIAN MAI XIANG CHA CAI *Rabdosia nervosa*. Ref: 2650, 4067.



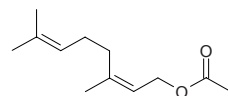
**15511 Nervosine**

[23179-26-2] C<sub>36</sub>H<sub>53</sub>NO<sub>12</sub> (691.82). Crystals +1H<sub>2</sub>O (as picrate), mp 130–131°C (picrate). Source: JIAN XUE QING *Liparis nervosa* (in 1969, the compound was isolated from the plant by K. Nishikawa et al.)<sup>[5505]</sup>. Ref: 1521, 2651, 5505.



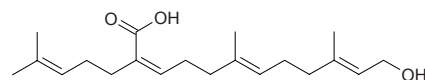
**15512 Neryl acetate**

[141-12-8] C<sub>12</sub>H<sub>20</sub>O<sub>2</sub> (196.29). bp 134°C/25 mmHg. Source: PEI LAN *Eupatorium fortunei*. Ref: 6.



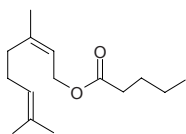
**15513 Nerylgeraniol-18-oic acid**

C<sub>20</sub>H<sub>32</sub>O<sub>3</sub> (320.48). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4297.

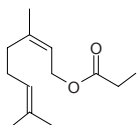


**15514 Neryl pentanoate**

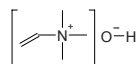
$C_{15}H_{26}O_2$  (238.37). Source: YUAN HUA *Daphne genkwa*. Ref: 2652.

**15515 Neryl propionate**

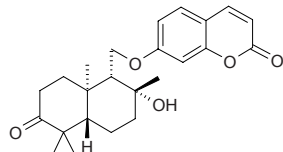
$C_{13}H_{22}O_2$  (210.32). Source: AI YE *Artemisia argyi*, DA MA YE ZE LAN *Eupatorium cannabinum*, LIAO GAO BEN *Ligusticum jeholense*, MING DANG SHEN *Changium smyrnioides*. Ref: 2653, 2654, 2655, 2656.

**15516 Neurine**

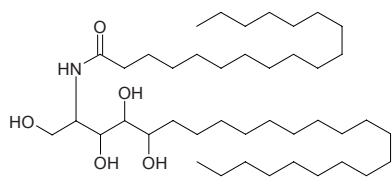
[463-88-7]  $C_5H_{13}NO$  (103.17). Sol.  $H_2O$ , EtOH. Source: MA GEN *Cannabis sativa*. Ref: 1521, 2657.

**15517 Neveskone**

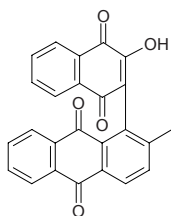
$C_{24}H_{30}O_5$  (398.50). Source: A WEI *Ferula assafoetida* (root). Ref: 5243.

**15518 Newbouldiamide**

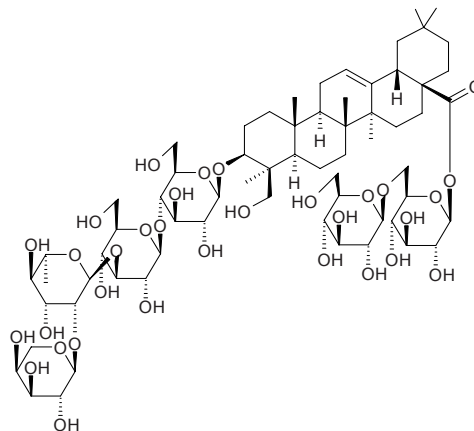
$C_{42}H_{85}NO_5$  (684.15). Colorless powder, mp 129°C,  $[\alpha]_D^{20} = +12^\circ$  ( $c = 0.001$ ). Pharm: Herbicide inactive (*Chlorella fysca*); antifungal inactive (*Ustilago violacea*); antibacterial inactive (gram-positive bacteria *Bacillus megaterium*). Source: FEI ZHOU ZI WEI *Newbouldia laevis* (seed, root cortex and stem cortex). Ref: 4467.

**15519 Newbouldiaquinone**

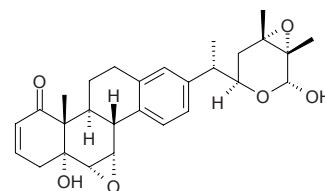
$C_{25}H_{14}O_5$  (394.39). Yellow powder, mp 206°C. Pharm: Antibacterial (gram-positive bacteria *Bacillus megaterium*); herbicide inactive (*Chlorella fysca*). Source: FEI ZHOU ZI WEI *Newbouldia laevis* (seed, root cortex and stem cortex). Ref: 4467.

**15520 New triterpenoid glycoside**

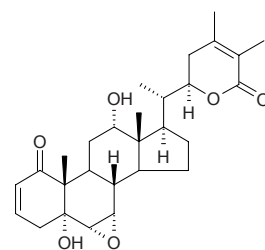
3-*O*-β-*D*-Glucopyranosyl(1→3)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranosyl-hederagenin-28-*O*-β-*D*-glucopyranosyl (1→6)-β-*D*-glucopyranosyl ester  $C_{65}H_{106}O_{32}$  (1399.55). White powder, mp 223~225°C. Source: JIN YIN HUA *Lonicera japonica*. Ref: 895.

**15521 Nicandrenone II**

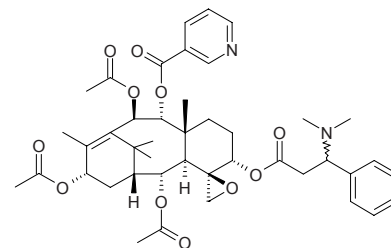
[40071-64-5]  $C_{28}H_{34}O_6$  (466.58). Crystals (benzene-chloroform), mp 117°C. Pharm: Insect antifeedant and Insecticidal. Source: JIA SUAN JIANG *Nicandra physaloides*. Ref: 6, 900, 1521, 2783.

**15522 Nicandrin B**

[92070-79-6]  $C_{28}H_{38}O_6$  (470.61). Crystals (MeOH), mp 246~248°C,  $[\alpha]_D = +110.7^\circ$  ( $c = 0.24$ ,  $CHCl_3$ ). Source: JIA SUAN JIANG *Nicandra physaloides*. Ref: 2658, 2659.

**15523 Nicaustrine**

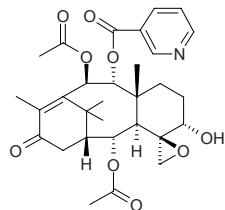
[127211-02-3]  $C_{43}H_{54}N_2O_{11}$  (774.92). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.



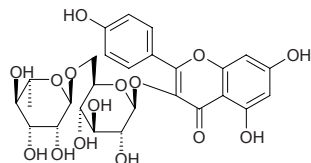


**15524 Nicotaxine**

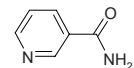
[126585-94-2]  $C_{30}H_{37}NO_9$  (555.63). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**15525 Nicotiflorin**

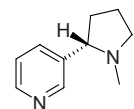
Kaempferol-3-*O*- $\beta$ -rutinoside; Kaempferol 3-*O*-(6"-*O*- $\alpha$ -rhamonpyranosyl)- $\beta$ -glucopyranoside [17650-84-9]  $C_{27}H_{30}O_{15}$  (594.53). mp 224°C. Pharm: Antioxidant (DPPH scavenger,  $IC_{50} > 100\mu g/mL$ , control Gallic acid,  $IC_{50} = 3.6\mu g/mL$ ; Cytochrome-C reduction,  $IC_{50} > 50\mu g/mL$ , control Gallic acid,  $IC_{50} = 3.0\mu g/mL$ )<sup>[5239]</sup>. Source: BAI GUO YE *Ginkgo biloba*, BI MA YE *Ricinus communis*, CI JI LI *Tribulus terrestris*, HUAI *Sophora japonica* (pericarp)<sup>[3080]</sup>, JI ZI MU *Sinoadina Racemosa* [Syn. *Adina racemosa*] (dried leaf, flower and twig: yield = 0.0011%dw)<sup>[3014]</sup>, LAO YA SHI *Diospyros rhombifolia* (leaf), MIAN TOU YE *Kleinhovia hospita*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], YI ZHU QIAN MA *Urtica dioica*, *Glycyrrhiza* sp. Ref: 6, 660, 2431, 3014, 3080, 4464, 5239.

**15526 Nicotinamide**

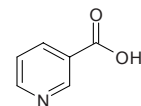
Niacin [98-92-0]  $C_6H_6N_2O$  (122.13). Pharm: Tyrosinase inhibitor (333.3 $\mu mol/L$ , InRt = 13.5%; control Kojic acid, 333.3 $\mu mol/L$ , InRt = 59.8%)<sup>[4233]</sup>, antiarrhythmic; component of coenzyme I and II (coenzyme of many dehydrogenases); used in treatment of pellagrosis, stomatitis and glossitis. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), ZANG HONG HUA *Crocus sativus* (pollen), ZHI MU *Anemarrhena asphodeloides*. Ref: 2, 658, 4233, 4488.

**15527 (-)-Nicotine**

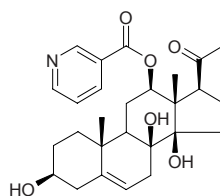
3-Pyridinecarboxamide [54-11-5]  $C_{10}H_{14}N_2$  (162.24). bp 246.1°C/730.5mmHg. Pharm: Anti-fertility agent (male mus); pesticide; LD (hmn, orl) = 50mg. Source: DANG SHEN *Codonopsis pilosula*, GU JIE CAO *Equisetum palustre*, HUANG HUA YAN CAO *Nicotiana rustica*, KU DOU ZI *Sophora alopecuroides*, MA TI YE *Caltha palustris*, MO HAN LIAN *Eclipta prostrata* [Syn. *Eclipta alba*], PU DI WU GONG *Lycopodium cernuum*, WEN JING *Equisetum arvense*, XU LI YA MA LI JIN *Asclepias syriaca*, YAN CAO *Nicotiana tabacum*. Ref: 2, 593, 658, 5507.

**15528 Nicotinic acid**

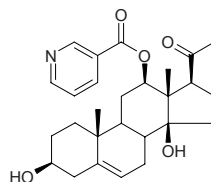
3-(1-Methyl-2-pyrrolidinyl)pyridine [59-67-6]  $C_6H_5NO_2$  (123.11). mp 236°C. Pharm: Antihypercholesterolemic; vasodilator (peripheral). Source: DA ZAO *Ziziphus jujuba*, DANG GUI *Angelica sinensis*, DANG SHEN *Codonopsis pilosula*, DONG GUA PI *Benincasa hispida*, GOU QI ZI *Lycium chinense*, JI ZI HUANG *Gallus gallus domesticus*, JIANG *Glycine max*, LI YU *Cyprinus carpio*, MAO SHU *Dioscorea alata*, NIU RU *Bos taurus domesticus*; *Bubalus bubalis*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole herb), YANG RU *Capra hircus*; *Ovis aries*, YUAN CAN E *Bombyx mori*, ZHI MU *Anemarrhena asphodeloides*, ZI CAI *Porphyra tenera*. Ref: 2, 658, 660, 1521, 4483.

**15529 12-O-Nicotinoylisolineolone**

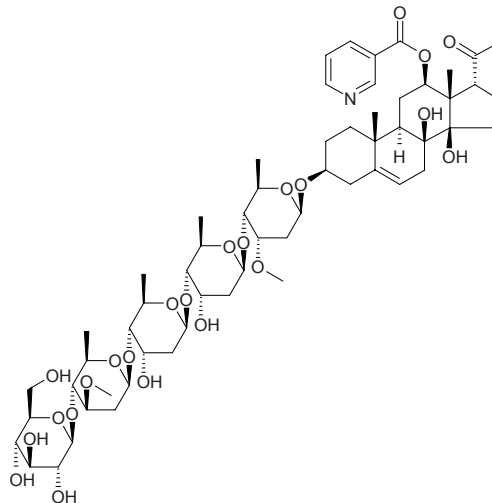
$C_{27}H_{35}NO_6$  (469.58). mp 250~254°C. Source: FU SHOU CAO *Adonis amurensis*. Ref: 6.

**15530 Nicotinoylisoramanone**

$C_{27}H_{35}NO_5$  (453.58). Source: FU SHOU CAO *Adonis amurensis*. Ref: 6, 2784.

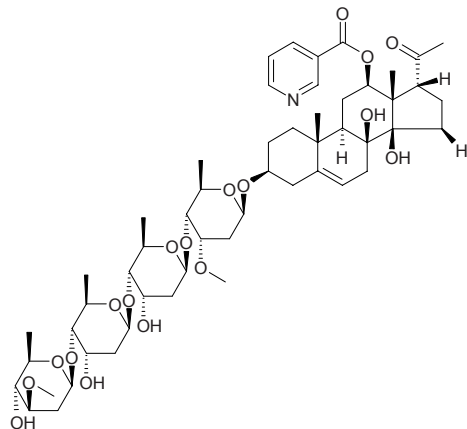
**15531 12-O-Nicotinoyllineolon 3-O- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-cymaropyranoside**

$C_{59}H_{89}NO_{23}$  (1180.36). Amorphous powder,  $[\alpha]_D^{27} = -12.1^\circ$  ( $c = 0.45$ , MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



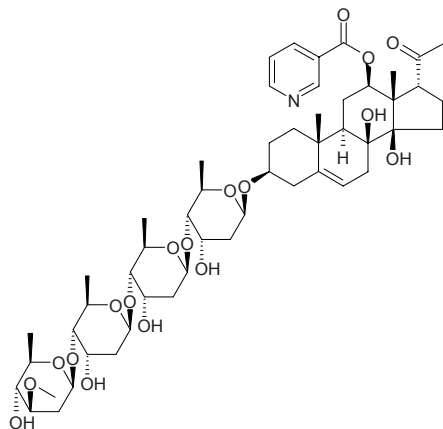
**15532 12-*O*-Nicotinoylneolon 3-*O*- $\beta$ -D-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-cymaropyranoside**

C<sub>53</sub>H<sub>79</sub>NO<sub>18</sub> (1018.22). Amorphous powder,  $[\alpha]_D^{21} = -14.4^\circ$  ( $c = 0.33$ , MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



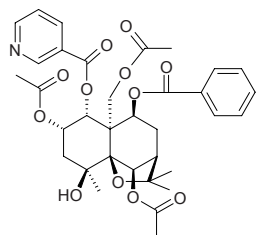
**15533 12-*O*-Nicotinoylneolon 3-*O*- $\beta$ -D-oleandropyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- $\beta$ -D-digitoxopyranoside**

C<sub>52</sub>H<sub>77</sub>NO<sub>18</sub> (1004.19). Amorphous powder,  $[\alpha]_D^{24} = -19.1^\circ$  ( $c = 0.57$ , MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.



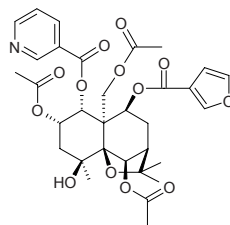
**15534 1 $\alpha$ -Nicotinoyloxy-2 $\alpha$ -acetoxy-6 $\beta$ -acetoxy-9 $\beta$ -benzyloxy-11-acetoxy-4 $\beta$ -hydroxydihydro- $\beta$ -agarofuran**

[130774-23-1] C<sub>34</sub>H<sub>39</sub>NO<sub>12</sub> (653.69). Amorphous solid,  $[\alpha]_D^{20} = +43.9^\circ$  ( $c = 0.5$ , MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



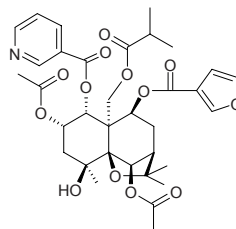
**15535 1 $\alpha$ -Nicotinoyloxy-2 $\alpha$ -acetoxy-6 $\beta$ -acetoxy-9 $\beta$ -furoyloxy-11-acetoxy-4 $\beta$ -hydroxydihydro- $\beta$ -agarofuran**

[130774-22-0] C<sub>32</sub>H<sub>37</sub>NO<sub>13</sub> (643.65). Amorphous solid,  $[\alpha]_D^{20} = +23.9^\circ$  ( $c = 0.5$ , MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



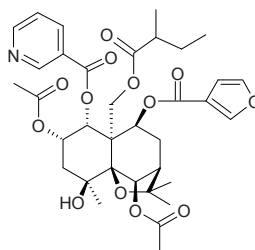
**15536 1 $\alpha$ -Nicotinoyloxy-2 $\alpha$ -acetoxy-6 $\beta$ -acetoxy-9 $\beta$ -furoyloxy-11-isobutyryloxy-4 $\beta$ -hydroxydihydro- $\beta$ -agarofuran**

[130774-20-8] C<sub>34</sub>H<sub>41</sub>NO<sub>13</sub> (671.70). mp 127~128°C,  $[\alpha]_D^{20} = +34.5^\circ$  ( $c = 0.5$ , MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



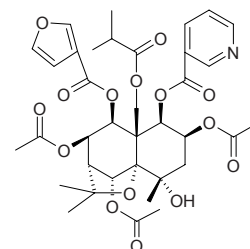
**15537 1 $\alpha$ -Nicotinoyloxy-2 $\alpha$ -acetoxy-6 $\beta$ -acetoxy-9 $\beta$ -furoyloxy-11-(2-methyl)butyryloxy-4 $\beta$ -hydroxydihydro- $\beta$ -agarofuran**

[130774-21-9] C<sub>35</sub>H<sub>43</sub>NO<sub>13</sub> (685.73). Amorphous solid,  $[\alpha]_D^{20} = +30.1^\circ$  ( $c = 0.5$ , MeOH). Pharm: Insect antifeedant. Source: DIAO GAN MA *Celastrus angulatus*. Ref: 2660.



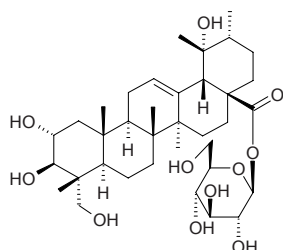
**15538 1 $\beta$ -Nicotinoyl-2 $\beta$ ,5 $\alpha$ ,7 $\beta$ -triacetoxy-4 $\alpha$ -hydroxy-11-isobutyryloxy-8 $\alpha$ -furanoyl-dihydroagarofuran**

C<sub>36</sub>H<sub>43</sub>NO<sub>15</sub> (729.74). Amorphous powder,  $[\alpha]_D^{25} = +9.2^\circ$  ( $c = 1.2$ , MeOH). Pharm: Immunosuppressant (inhibits lymphocyte transformation, 80 $\mu$ g/mL, InRt = 28%, control Dexamethasone, 50 $\mu$ g/mL, InRt = 61%). Source: LEI GONG TENG *Tripterygium wilfordii* (xylem). Ref: 4466.

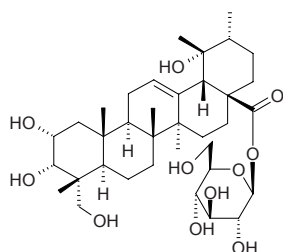


**15539 Niga-ichigoside F<sub>1</sub>**

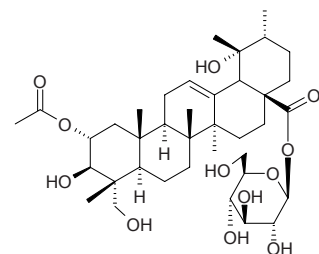
C<sub>36</sub>H<sub>58</sub>O<sub>11</sub> (666.86). Amorphous powder or needles (MeOH aq.), mp 230–231°C, 229–233°C.  $[\alpha]_D^{23} = +11.2^\circ$  ( $c = 0.93$ , MeOH). Source: CU YE XUAN GOU ZI *Rubus alceaefolius*, MAO MEI *Rubus parvifolius*, SHUI YANG MEI *Geum japonicum*, DUO CI DI SHI MU *Desfontainia spinosa*, XIA KU CAO *Prunella vulgaris*, XIAO YE XUAN GOU ZI *Rubus taiwanicolus*. Ref: 509, 606, 660, 1521, 2508.

**15540 Niga-ichigoside F<sub>2</sub>**

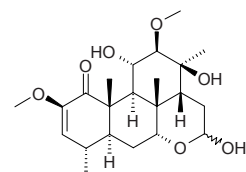
C<sub>36</sub>H<sub>58</sub>O<sub>11</sub> (666.86). White needles (MeOH), mp 214–216°C. Source: GUANG LIANG YANG TONG *Adinandra nitida*, XIA KU CAO *Prunella vulgaris*, XIAO YE XUAN GOU ZI *Rubus taiwanicolus*. Ref: 660, 2508, 2518.

**15541 Niga-ichigoside F<sub>3</sub>**

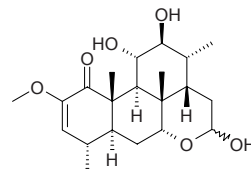
C<sub>38</sub>H<sub>60</sub>O<sub>12</sub> (708.89). Source: XIAO YE XUAN GOU ZI *Rubus taiwanicolus*. Ref: 660.

**15542 Nigakihemiacetal A**

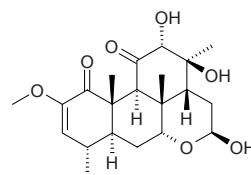
[30248-05-6] C<sub>22</sub>H<sub>34</sub>O<sub>7</sub> (410.51). mp 262–263°C. Pharm: Extremely bitter. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 6, 658.

**15543 Nigakihemiacetal C**

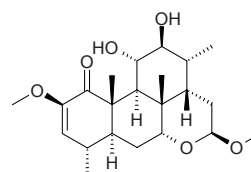
[30760-22-6] C<sub>21</sub>H<sub>32</sub>O<sub>6</sub> (380.49). mp 265.0–265.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521.

**15544 Nigakihemiacetal E**

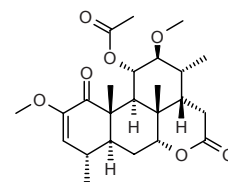
[57576-45-1] C<sub>21</sub>H<sub>30</sub>O<sub>7</sub> (394.47). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15545 Nigakihemiacetal F**

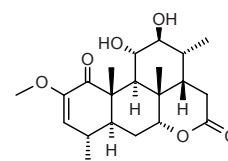
[57576-46-2] C<sub>22</sub>H<sub>34</sub>O<sub>6</sub> (394.51). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15546 Nigakilactone C**

Nigakilactone [24148-78-5] C<sub>24</sub>H<sub>34</sub>O<sub>7</sub> (434.53). mp 252.5–253.0°C. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 660.

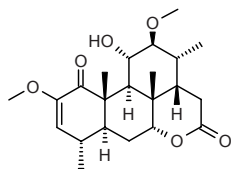
**15547 Nigakilactone A**

[24148-76-3] C<sub>21</sub>H<sub>30</sub>O<sub>6</sub> (378.47). mp 237.5–238.0°C. Pharm: Antihypertensive. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (dried branch and leaf), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 5501.

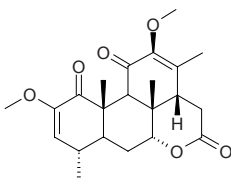


**15548 Nigakilactone B**

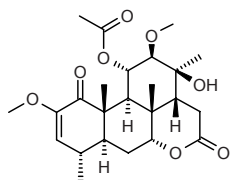
Similikalactone A [24148-77-4]  $C_{22}H_{32}O_6$  (392.50). mp 278.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15549 Nigakilactone D**

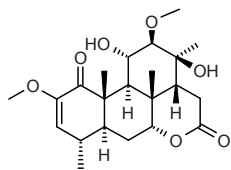
[76-78-8]  $C_{22}H_{28}O_6$  (388.46). Crystals (MeOH aq.), mp 221~222°C,  $[\alpha]_D^{20} = +34.5^\circ$  ( $c = 5.09$ ,  $CHCl_3$ ). Pharm: Insecticidal. Source: MEI ZHOU KU MU *Quassia amara*, YA MAI JIA KU MU *Picrasma excelsa*. Ref: 1521.

**15550 Nigakilactone E**

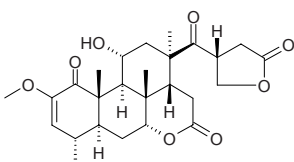
[28360-79-4]  $C_{24}H_{34}O_8$  (450.53). mp 280°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15551 Nigakilactone F**

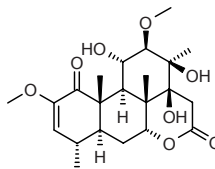
[28387-43-1]  $C_{22}H_{32}O_7$  (408.50). mp 265.0~265.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15552 Nigakilactone G**

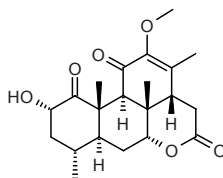
Picrasin A [27368-79-2]  $C_{26}H_{34}O_8$  (474.56). Crystals (MeOH), mp 297~299°C. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 2994.

**15553 Nigakilactone H**

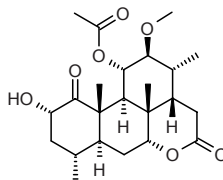
[30248-06-7]  $C_{22}H_{32}O_8$  (424.50). mp 274.0~275.5°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15554 Nigakilactone I**

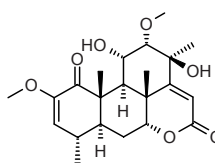
Picrasin B [26121-56-2]  $C_{21}H_{28}O_6$  (376.45). Crystals (MeOH), mp 255~257°C,  $[\alpha]_D = +16.4^\circ$  ( $CHCl_3$ ). Source: FEI ZHOU KU MU *Quassia africana*, KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12, 1521, 2994.

**15555 Nigakilactone J**

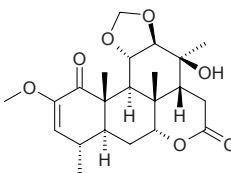
Picrasin C [33804-89-6]  $C_{23}H_{34}O_7$  (422.52). Crystals ( $CHCl_3$ -pet. ether), mp 240~241°C, 250~252°C,  $[\alpha]_D = +42^\circ$  (EtOH). Pharm: Bitter principle. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], DU DOU *Laburnum anagyroides*, *Picea* sp., *Pinus* sp. Ref: 6, 12, 658, 2994.

**15556 Nigakilactone K**

[35334-39-5]  $C_{22}H_{30}O_7$  (406.48). mp 226~227°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

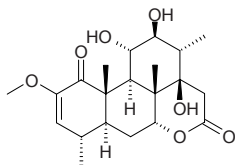
**15557 Nigakilactone L**

[35334-40-8]  $C_{22}H_{30}O_7$  (406.48). mp 296°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

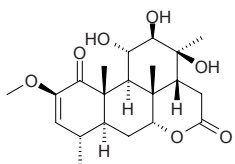


**15558 Nigakilactone M**

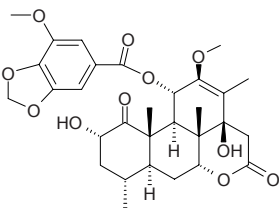
[37812-54-7]  $C_{21}H_{30}O_7$  (394.47). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15559 Nigakilactone N**

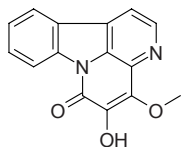
[37812-55-8]  $C_{21}H_{30}O_7$  (394.47). mp 207~211°C. Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15560 Nigakilactone O**

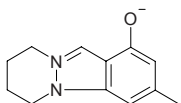
$C_{30}H_{36}O_{11}$  (572.61). Source: KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**15561 Nigakinone**

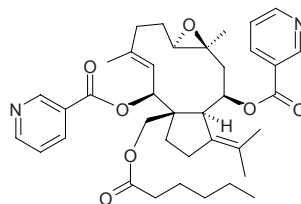
4-Methoxy-5-hydroxycanthin-6-one [18110-86-6]  $C_{15}H_{10}N_2O_3$  (266.26). Pharm: Antibacterial (*Diplococcus pneumoniae*, hemolytic  $\beta$ -streptococcus and *Bacillus subtilis*); LD<sub>50</sub> (mus ip) = 210mg/kg. Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*] (dried branch and leaf: content scope of 5 origins = 0.03%~0.288%, mean content = 0.147%<sup>[5508]</sup>), KU SHU PI *Picrasma quassioides* [Syn. *Picrasma ailanthoides*], YA MAI JIA KU MU *Picrasma excelsa*, MEI ZHOU KU MU *Quassia amara* (the compound was isolated from the plant by Yushiro Kimura et al. in 1961)<sup>[5505]</sup>. Ref: 6, 12, 658, 5501, 5505, 5508.

**15562 Nigeglanine**

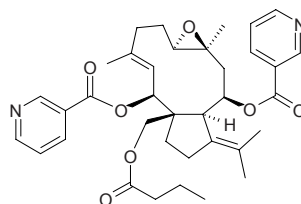
$C_{12}H_{14}N_2O^-$  (203.27). White solid, mp 289~290°C. Source: XIAN MAO HEI ZHONG CAO *Nigella glandulifera* (seed). Ref: 4277.

**15563 Nigellamine A<sub>3</sub>**

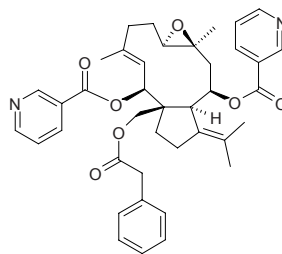
$C_{38}H_{48}N_2O_7$  (644.82). White powder,  $[\alpha]_D^{27} = -11.3^\circ$  ( $c = 0.50$ ,  $CHCl_3$ ). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1  $\mu$ mol/L, stored triglyceride = (85 $\pm$ 6)% of control,  $p < 0.05$ ). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

**15564 Nigellamine A<sub>4</sub>**

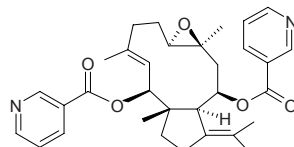
$C_{36}H_{44}N_2O_7$  (616.76). White powder,  $[\alpha]_D^{26} = -13.4^\circ$  ( $c = 0.20$ ,  $CHCl_3$ ). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1  $\mu$ mol/L, stored triglyceride = (82 $\pm$ 3)% of control,  $p < 0.01$ ). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

**15565 Nigellamine A<sub>5</sub>**

$C_{40}H_{44}N_2O_7$  (664.81). White powder,  $[\alpha]_D^{28} = -14.8^\circ$  ( $c = 0.20$ ,  $CHCl_3$ ). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1  $\mu$ mol/L, stored triglyceride = (66 $\pm$ 2)% of control,  $p < 0.01$ ). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

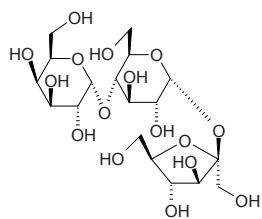
**15566 Nigellamine C**

$C_{32}H_{38}N_2O_5$  (530.67). White powder,  $[\alpha]_D^{27} = -23.6^\circ$  ( $c = 0.30$ ,  $CHCl_3$ ). Pharm: Promotes lipid metabolism (inhibits stored triglyceride in primary cultured mouse hepatocytes, 1  $\mu$ mol/L, stored triglyceride = (81 $\pm$ 1)% of control,  $p < 0.01$ ). Source: ZAI PEI HEI ZHONG CAO *Nigella sativa* (seed). Ref: 4281.

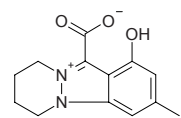


**15567 Nigellamose**

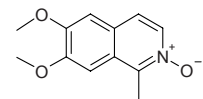
$C_{18}H_{32}O_{16}$  (504.45). White cubic crystals, mp 132~134°C,  $[\alpha]_D^{20} = +94.5^\circ$  ( $c = 0.046$ , MeOH). Source: XIAN MAO HEI ZHONG CAO *Nigella glandulifera* (seed). Ref: 4820.

**15568 Nigelline**

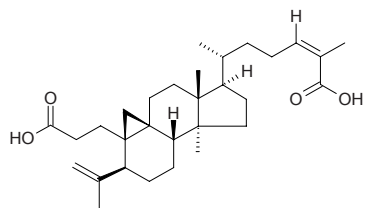
[98063-20-8]  $C_{13}H_{14}N_2O_3$  (246.27). Yellow crystals (EtOH), decomposition over a wide temperature range. Source: ZAI PEI HEI ZHONG CAO *Nigella sativa*. Ref: 2661.

**15569 Nigellimine N-oxide**

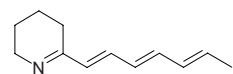
$C_{12}H_{13}NO_3$  (219.24). Amorphous. Source: ZAI PEI HEI ZHONG CAO *Nigella sativa*. Ref: 2662.

**15570 Nigranoic acid**

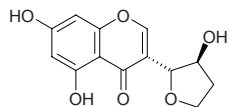
[39111-07-4]  $C_{30}H_{46}O_4$  (470.70). Pharm: Anti-HIV (HIV-RT inhibitor and HIV polyase inhibitor); antineoplastic<sup>[2523]</sup>; anti-HIV<sup>[2523]</sup>. Source: HUA ZHONG WU WEI ZI *Schisandra sphenanthera*, NEI FENG XIAO WU WEI ZI *Schisandra nigr*, QIU RUI WU WEI ZI *Schisandra sphaerandra*. Ref: 1521, 2268, 2523.

**15571 Nigrifactin**

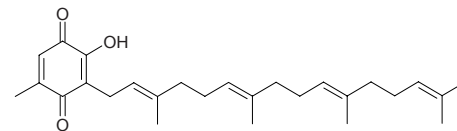
[23943-03-5]  $C_{12}H_{17}N$  (175.28). Pharm: Antihistamine. Source: unsteadiness mould's metabolite. Ref: 658.

**15572 Nigrolineaisoflavone A**

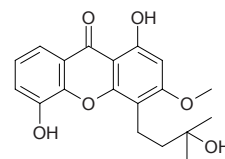
$C_{13}H_{12}O_6$  (264.24). Pale yellow crystals, mp 186~187°C,  $[\alpha]_D^{29} = -62.5^\circ$  ( $c = 0.016$ , MeOH). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000394%dw). Ref: 4735.

**15573 Nigrolineaquinone A**

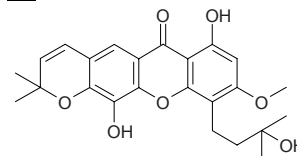
$C_{27}H_{38}O_3$  (410.6). Orange-red gum. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.0001%dw). Ref: 4735.

**15574 Nigrolineaxanthone A**

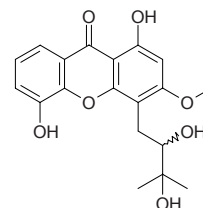
1,5-Dihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)xanthone  $C_{19}H_{20}O_6$  (344.37). Yellow solid, mp 142.8~144.6°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15575 Nigrolineaxanthone B**

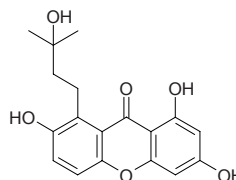
1,5-Dihydroxy-3-methoxy-4-(3-hydroxy-3-methylbutyl)-6',6'-dimethylpyrano-(2',3':6,7) xanthone  $C_{24}H_{26}O_7$  (426.47). Yellow crystals, mp 165.0~167.2°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15576 Nigrolineaxanthone C**

1,5-Dihydroxy-3-methoxy-4-(2,3-dihydroxy-3-methylbutyl)xanthone  $C_{19}H_{20}O_7$  (360.37). Pale yellow solid, mp 104.5~105.8°C,  $[\alpha]_D^{29} = -43.5^\circ$  ( $c = 0.023$ , EtOH). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

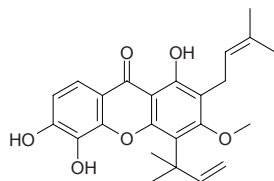
**15577 Nigrolineaxanthone D**

1,3,7-Trihydroxy-8-(3-hydroxy-3-methylbutyl)xanthone  $C_{18}H_{18}O_6$  (330.34). Pale yellow solid, mp 196.0~197.8°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

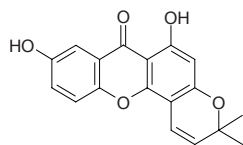


**15578 Nigrolineaxanthone E**

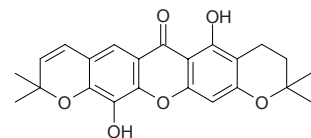
1,5,6-Trihydroxy-3-methoxy-2-(3-methyl-2-butenyl)-4-(1,1-dimethylallyl)xanthone  $C_{24}H_{26}O_6$  (410.47). Pale yellow solid, mp 102.5–103.8°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15579 Nigrolineaxanthone F**

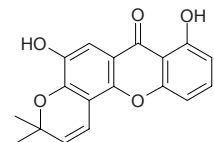
1,7-Dihydroxy-6',6'-dimethylpyrano(2',3':3,4)xanthone  $C_{18}H_{14}O_5$  (310.31). Yellow solid, mp 235.9–236.5°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15580 Nigrolineaxanthone G**

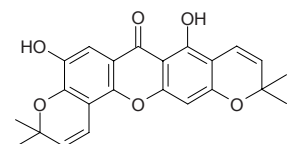
1,5-Dihydroxy-6',6'-dimethyldihydropyrano(2',3':3,2)-6'',6''-dimethylpyrano-(2'',3'':6,7)xanthone  $C_{23}H_{22}O_6$  (394.43). Yellow solid, mp 205.8–207.2°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15581 Nigrolineaxanthone H**

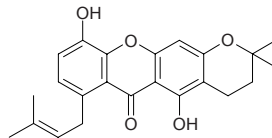
1,7-Dihydroxy-6',6'-dimethylpyrano(2',3':6,5)xanthone  $C_{18}H_{14}O_5$  (310.31). Yellow crystals, mp 220.1–222.5°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15582 Nigrolineaxanthone I**

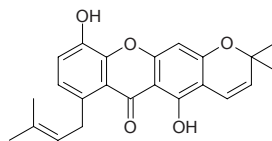
1,7-Dihydroxy-6',6'-dimethylpyrano(2',3':3,2)-6'',6''-dimethylpyrano(2'',3'':6,5)xanthone  $C_{23}H_{20}O_6$  (392.41). Yellow solid, mp 241.7–243.5°C. Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (stam bark). Ref: 3482.

**15583 Nigrolineaxanthone J**

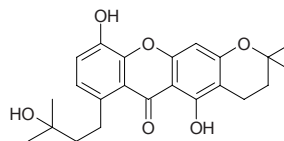
$C_{23}H_{24}O_5$  (380.44). Pale yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000136%dw). Ref: 4735.

**15584 Nigrolineaxanthone K**

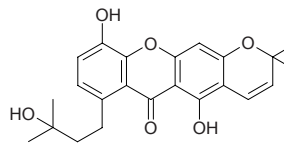
$C_{23}H_{22}O_5$  (378.43). Yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00011%dw). Ref: 4735.

**15585 Nigrolineaxanthone L**

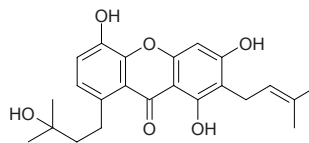
$C_{23}H_{26}O_6$  (398.46). Yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.0001%dw). Ref: 4735.

**15586 Nigrolineaxanthone M**

$C_{23}H_{24}O_6$  (396.44). Yellow solid, mp 161–162°C. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000056%dw). Ref: 4735.

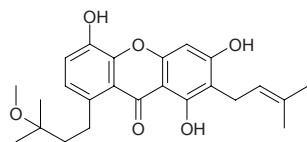
**15587 Nigrolineaxanthone N**

$C_{23}H_{26}O_6$  (398.46). Yellow solid, mp 199–200°C. Pharm: Antibacterial (MRSA, MIC = 4µg/mL; control Vancomycin, MIC = 2µg/mL). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00062%dw). Ref: 4735.

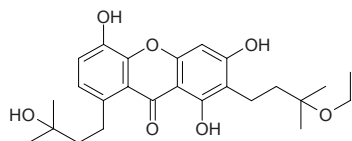


**15588 Nigrolineaxanthone O**

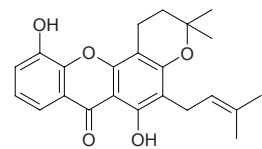
$C_{24}H_{28}O_6$  (412.49). Pale yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00017%dw). Ref: 4735.

**15589 Nigrolineaxanthone P**

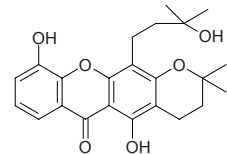
$C_{25}H_{32}O_7$  (444.53). Pale yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.00025%dw). Ref: 4735.

**15590 Nigrolineaxanthone Q**

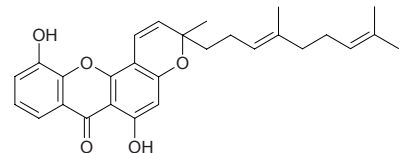
$C_{23}H_{24}O_5$  (380.44). Yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000072%dw). Ref: 4735.

**15591 Nigrolineaxanthone R**

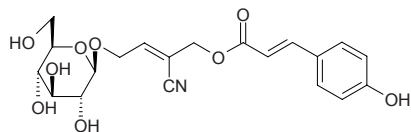
$C_{23}H_{26}O_6$  (398.46). Yellow gum. Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000104%dw). Ref: 4735.

**15592 Nigrolineaxanthone S**

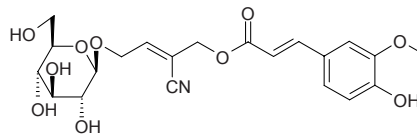
$C_{28}H_{30}O_5$  (446.55). Yellow gum,  $[\alpha]_D^{29} = +58.8^\circ$  ( $c = 0.017$ , MeOH). Pharm: Antibacterial inactive (MRSA). Source: HEI XIAN TIAO TENG HUANG *Garcinia nigrolineata* (leaf: yield = 0.000104%dw). Ref: 4735.

**15593 Nigrumin-5-p-coumarate**

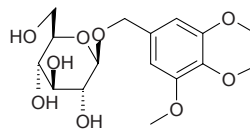
(2-*trans*-p-coumaroyloxymethyl-4- $\beta$ -D-glucopyranosyloxy-2(*E*)-butenenitrile)  $C_{20}H_{23}NO_9$  (421.41). Source: HEI CHA BIAO *Ribes nigrum*. Ref: 2000.

**15594 Nigrumin-5-ferulate**

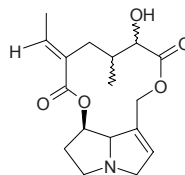
(2-*trans*-Feruloyloxymethyl-4- $\beta$ -D-glucopyranosyloxy-2(*E*)-butenenitrile)  $C_{21}H_{25}NO_{10}$  (451.43). Source: HEI CHA BIAO *Ribes nigrum*. Ref: 2000.

**15595 Nikoenoside**

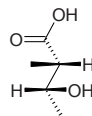
$C_{16}H_{24}O_9$  (360.36). White powder,  $[\alpha]_D^{22} = -57.7^\circ$  ( $c = 0.20$ , EtOH). Source: MAO GUO QI *Acer nikoense* (stem cortex: yield = 0.0015%). Ref: 4304.

**15596 Nilgirine**

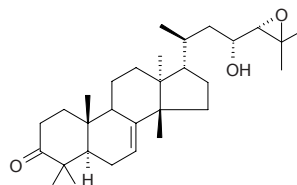
[21009-05-2]  $C_{17}H_{23}NO_5$  (321.38). mp 127~128°C. Source: XIANG LING CAO *Crotalaria ferruginea*. Ref: 6.

**15597 Nilic acid**

[473-86-9]  $C_5H_{10}O_3$  (118.13). Source: QIAN NIU ZI *Pharbitis nil*. Ref: 6.

**15598 Niloticin**

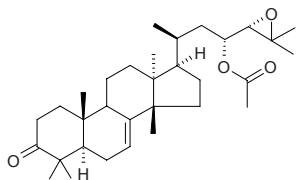
[115404-57-4]  $C_{30}H_{48}O_3$  (456.72). Needles, mp 147°C,  $[\alpha]_D = -62^\circ$  ( $c = 0.08$ ,  $CHCl_3$ ); colorless needles, mp 149~151°C,  $[\alpha]_D^{25} = -82.6^\circ$  ( $c = 1.0$ , MeOH). Pharm: Cytotoxic ( $P_{388}$ ,  $ED_{50} = 1.5\mu g/mL$ ; KB,  $ED_{50} = 8.3\mu g/mL$ ). Source: BAI YE MI ZI LAN *Aglaia leucophylla*, HUANG BAI *Phellodendron amurense*, HUANG PI SHU *Phellodendron chinense*, CHANG YE KUANG MU *Eurycoma longifolia*, NI LUO HE JIN YIN LIAN *Turraea nilotica*. Ref: 2663, 2664, 2665, 2666, 2667, 2668.



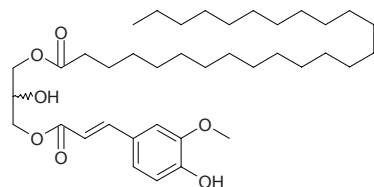


**15599 Niloticin acetate**

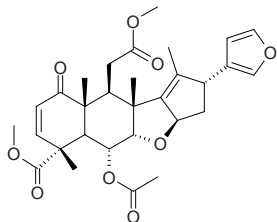
[116425-97-9]  $C_{32}H_{50}O_4$  (498.75). Needles, mp 157grade,  $[\alpha]_D = -75^\circ$  ( $c = 0.035$ ,  $CHCl_3$ ). Source: HUANG PI SHU *Phellodendron chinense*, CHANG YE KUAN MU *Eurycoma longifolia*. Ref: 2663, 2664, 2665.

**15600 Niloticol**

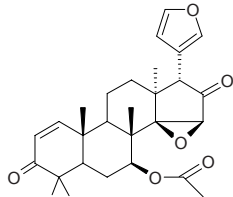
[110037-32-6]  $C_{38}H_{64}O_7$  (632.93). Crystals (acetone, di-Ac compound), mp 68°C (di-Ac compound). Source: NI LUO HE CHENG LIU *Tamarix nilotica* (root). Ref: 2774.

**15601 Nimbin**

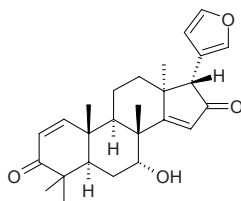
[5945-86-8]  $C_{30}H_{36}O_9$  (540.62). Crystals (MeOH), mp 205°C,  $[\alpha]_D = +170^\circ$ . Source: YIN JIAN *Melia indica*, *Melia azadirachta*. Ref: 2669.

**15602 Nimbinin**

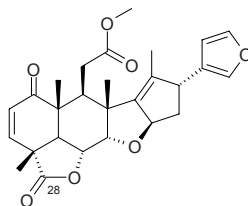
[18385-59-6]  $C_{28}H_{34}O_6$  (466.58). Crystals (MeOH), mp 202~204°C,  $[\alpha]_D = +45^\circ$  ( $CHCl_3$ ). Source: YIN JIAN *Melia indica*, *Melia azadirachta*. Ref: 2670.

**15603 Nimbocinol**

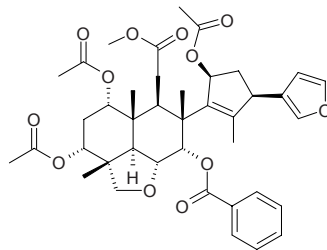
[101509-58-4]  $C_{26}H_{32}O_4$  (408.54). mp 160~161°C,  $[\alpha]_D^{25} = -14.28^\circ$  ( $CHCl_3$ ). Pharm: Pesticide (inhibits growth of *Heliothis virescens*,  $EC_{50} = 1600\text{mg/L}$ ). Source: KU LIAN PI *Melia azedarach*. Ref: 1521, 2671.

**15604 Nimbolide**

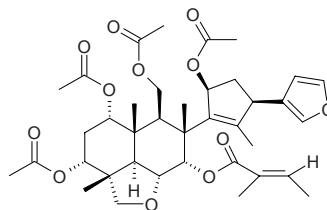
[25990-37-8]  $C_{27}H_{30}O_7$  (466.54). Crystals (MeOH), mp 245~247°C, 228~230°C,  $[\alpha]_D = +206^\circ$ . Source: *Melia azadirachta*. Ref: 2672.

**15605 Nimbolidin A**

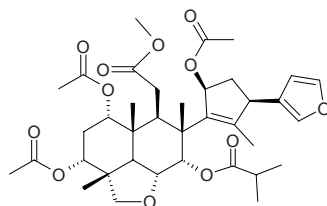
$C_{40}H_{48}O_{12}$  (720.82). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

**15606 Nimbolidin B**

[76689-94-6]  $C_{38}H_{50}O_{12}$  (698.81). Amorphous powder,  $[\alpha]_D^{23} = -7^\circ$  ( $c = 0.15$ , methanol). Pharm: Insect antifeedant (larva of night moth, 500mg/L). Source: KU LIAN PI *Melia azedarach*, CHUAN LIAN ZI *Melia toosendan*. Ref: 939, 1113.

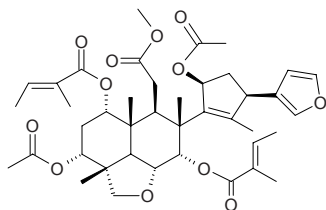
**15607 Nimbolidin C**

[169056-26-2]  $C_{37}H_{50}O_{12}$  (686.80). Amorphous powder,  $[\alpha]_D^{23} = +14^\circ$  ( $c = 0.3$ , methanol). Pharm: Insect antifeedant (larva of night moth, 500mg/L). Source: CHUAN LIAN ZI *Melia toosendan*. Ref: 1113.

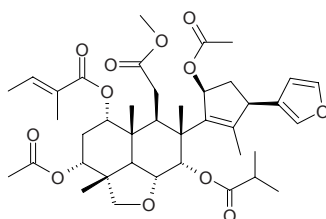


**15608 Nimbolidin D**

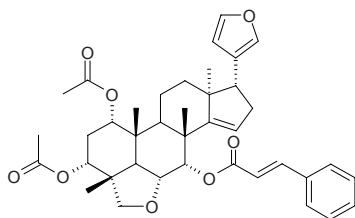
[169056-28-4]  $C_{41}H_{54}O_{12}$  (738.87). Amorphous powder,  $[\alpha]_D^{22} = -55^\circ$  ( $c = 0.6$ , methanol). Pharm: Insect antifeedant (larva of night moth, 500mg/L). Source: CHUAN LIAN ZI *Melia toosendan*. Ref: 1113.

**15609 Nimbolidin E**

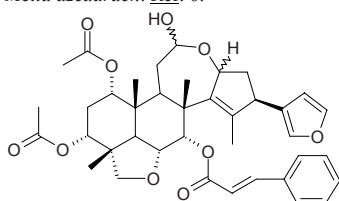
[169056-27-3]  $C_{40}H_{54}O_{12}$  (726.86). Amorphous powder,  $[\alpha]_D^{22} = +4^\circ$  ( $c = 0.4$ , methanol). Pharm: Insect antifeedant (larva of night moth, 500mg/L). Source: CHUAN LIAN ZI *Melia toosendan*. Ref: 1113.

**15610 Nimbolin A**

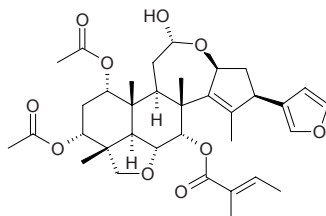
[24480-41-9]  $C_{39}H_{46}O_8$  (642.80). mp 180–183°C. Source: KU LIAN PI *Melia azedarach*. Ref: 6.

**15611 Nimbolin B**

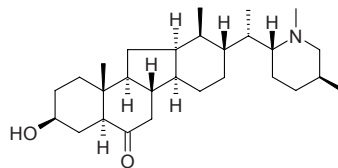
[24480-42-0]  $C_{39}H_{46}O_{10}$  (674.80). mp 243–245°C. Source: KU LIAN PI *Melia azedarach*. Ref: 6.

**15612 Nimbolin B**

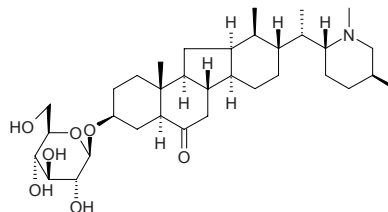
$C_{35}H_{46}O_{10}$  (626.75). Amorphous powder,  $[\alpha]_D = -42^\circ$  ( $c = 0.095$ ). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.

**15613 Ningpeisine**

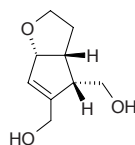
*N*-Methyl-3 $\beta$ -hydroxy-5 $\alpha$ -veratranine-6-one [117695-02-0]  $C_{28}H_{47}NO_2$  (429.69). Colorless acicular clustered crystals, mp 228–230°C,  $[\alpha]_D^{20} = +20^\circ$  ( $c = 0.5$ , anhydrous ethanol). Source: NING GUO BEI MU *Fritillaria ningguoensis*. Ref: 105.

**15614 Ningpeisinoid**

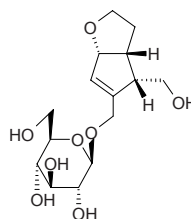
*N*-Methyl-5 $\alpha$ -veratranine-6-oxo-3 $\beta$ -*O*- $\beta$ -D-glucoside [139742-29-3]  $C_{34}H_{57}NO_7$  (591.84). Thin acicular crystals, mp 284–286°C,  $[\alpha]_D^{20} = +24^\circ$  ( $c = 0.4$ , chloroform:ethanol = 4:1). Pharm: Antitussive (dispels phlegm). Source: NING GUO BEI MU *Fritillaria ningguoensis*. Ref: 205.

**15615 Ningpogenin**

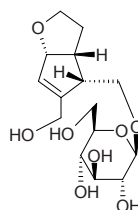
$C_9H_{14}O_3$  (170.21). Oil,  $[\alpha]_D = +16.0^\circ$  ( $c = 1$ , MeOH). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 2673.

**15616 Ningpogoside A**

$C_{15}H_{24}O_8$  (332.35). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 2674.

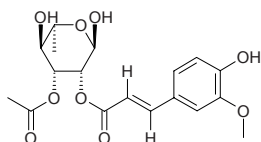
**15617 Ningpogoside B**

$C_{15}H_{24}O_8$  (332.35). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 2674.

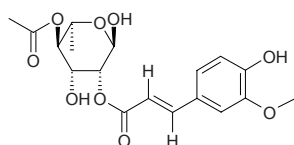


**15618 Ningposide A**

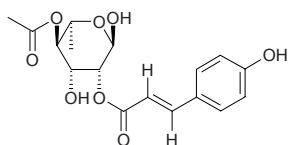
3-*O*-Acetyl-2-*O*-feruloyl- $\alpha$ -*L*-rhamnopyranose C<sub>18</sub>H<sub>22</sub>O<sub>9</sub> (382.37). Oil,  $[\alpha]_D^{20}$  = 116.29° ( $c$  = 0.63, acetone). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 674, 741.

**15619 Ningposide B**

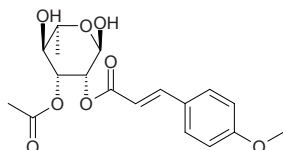
4-*O*-Acetyl-2-*O*-feruloyl- $\alpha$ -*L*-rhamnopyranose C<sub>18</sub>H<sub>22</sub>O<sub>9</sub> (382.37). Oil,  $[\alpha]_D^{20}$  = 87.23° ( $c$  = 0.241, acetone). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 741.

**15620 Ningposide C**

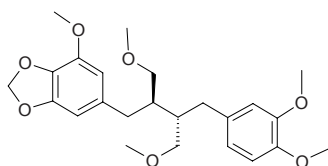
C<sub>17</sub>H<sub>20</sub>O<sub>8</sub> (352.34). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 741.

**15621 Ningposide D**

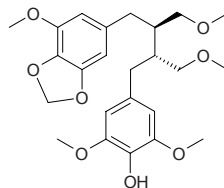
3-*O*-Acetyl-2-*O*-*p*-methoxycinnamoyl- $\alpha$ ( $\beta$ )-*L*-rhamnopyranose C<sub>18</sub>H<sub>22</sub>O<sub>8</sub> (366.37). Oil,  $[\alpha]_D^{25}$  = +42.0° ( $c$  = 0.2, CHCl<sub>3</sub>). Pharm: Cytotoxic inactive (MCF7, IC<sub>50</sub> > 100 μmol/L, control Adriamycin, IC<sub>50</sub> = (1.5±0.2) μmol/L; K562, IC<sub>50</sub> > 100 μmol/L, Adriamycin, IC<sub>50</sub> = (0.07±0.01) μmol/L; Bowes, IC<sub>50</sub> > 100 μmol/L, Adriamycin, IC<sub>50</sub> = (0.45±0.01) μmol/L; T24S, IC<sub>50</sub> > 100 μmol/L, Adriamycin, IC<sub>50</sub> = (5.8±0.6) μmol/L; A549, IC<sub>50</sub> > 100 μmol/L, Adriamycin, IC<sub>50</sub> = (15.8±6.7) μmol/L). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 5288.

**15622 Niranthin**

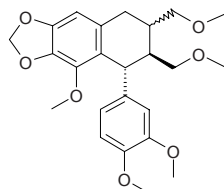
[50656-77-4] C<sub>24</sub>H<sub>32</sub>O<sub>7</sub> (432.52). Crystals (hexane), mp 67~69°C,  $[\alpha]_D^{30}$  = +28° ( $c$  = 1.29, CHCl<sub>3</sub>). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2675, 2676.

**15623 Nirphyllin**

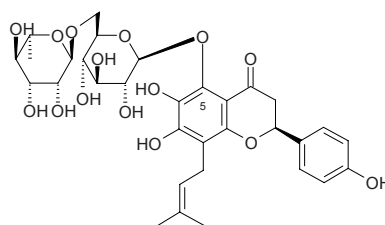
[120396-54-5] C<sub>24</sub>H<sub>32</sub>O<sub>8</sub> (448.52). Pharm: Antihepatotoxin. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2677.

**15624 Nirtetralin**

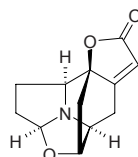
[50656-78-5] C<sub>24</sub>H<sub>30</sub>O<sub>7</sub> (430.50). Crystals (hexane), mp 55°C,  $[\alpha]_D$  = +14.39° ( $c$  = 1.39, CHCl<sub>3</sub>). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2675, 2676.

**15625 Nirurin**

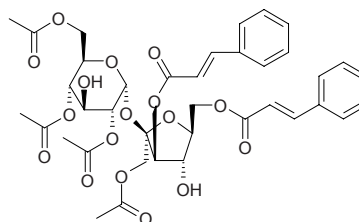
[96253-68-8] C<sub>32</sub>H<sub>40</sub>O<sub>15</sub> (664.67). Crystals (MeOH), mp 298~299°C (dec). Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2678.

**15626 Nirurine**

[105801-14-7] C<sub>12</sub>H<sub>13</sub>NO<sub>3</sub> (219.24). Crystals (CHCl<sub>3</sub>-2-propanol), mp 205~209°C,  $[\alpha]_D$  = +196°. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2679.

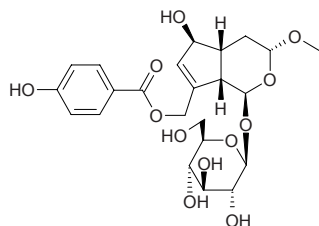
**15627 Niruriside**

[173268-90-1] C<sub>38</sub>H<sub>42</sub>O<sub>17</sub> (770.75). White amorphous powder. Pharm: Anti-HIV. Source: ZHU ZI CAO *Phyllanthus niruri*. Ref: 2680.

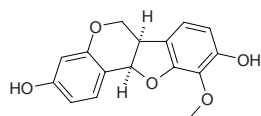


**15628 Nishindaside**

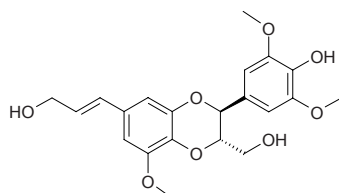
[88204-92-6] C<sub>23</sub>H<sub>30</sub>O<sub>12</sub> (498.49). Amorphous powder,  $[\alpha]_D^{25} = -83.5^\circ$  ( $c = 1$ , MeOH). Source: HUANG JING YE *Vitex negundo*. Ref: 2681.

**15629 (-)-Nissolin**

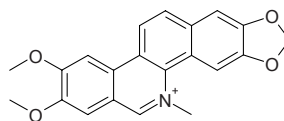
[73340-42-8] C<sub>16</sub>H<sub>14</sub>O<sub>5</sub> (286.29). Pharm: Antifungal. Source: HE CAO XIANG WAN DOU *Lathyrus nissolia*. Ref: 658, 2785.

**15630 7S,8S-Nitidanin**

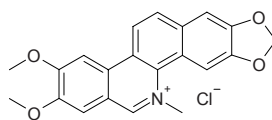
C<sub>21</sub>H<sub>24</sub>O<sub>8</sub> (404.42). Colorless oil,  $[\alpha]_D^{20} = -16.0^\circ$  ( $c = 0.5$ , MeOH). Source: TAN XIANG *Santalum album* (heartwood). Ref: 4468.

**15631 Nitidine**

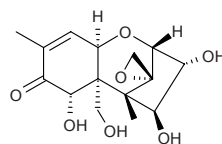
[76872-57-7] C<sub>21</sub>H<sub>18</sub>NO<sub>4</sub><sup>+</sup> (348.38). mp 215~218°C. Pharm: Antineoplastic (mus P<sub>388</sub>, 4mg/(kg·d), biotic prolonged rate = 109%; mus L<sub>1210</sub>, 4mg/(kg·d), biotic prolonged rate = 36%; showing unacceptable toxicity profile for clinical use); reverse transcriptase inhibitor (carcinogen RNA virus); antineoplastic (mus, L<sub>1210</sub> leukemia, P<sub>388</sub> leukemia, Lewis lung carcinoma, and B16 melanoma)<sup>[5369]</sup>; antineoplastic (increases life span of mouse inoculated with Ehrlich ascites tumor, causes decrease in mitotic index and size of tumor cells, and inhibits DNA and RNA synthesis in tumors)<sup>[5369]</sup>; antineoplastic (chloride is used in clinical treatment of chronic myelocytic leukemia)<sup>[5369]</sup>; cytotoxic (binds to calf thymus DNA by intercalation and to be toxic to topoisomerases I and II)<sup>[5369]</sup>; topoisomerases inhibitor (exhibits strong stabilization of covalent binary complex formed between topoisomerase I and DNA)<sup>[5369]</sup>. Source: CHU YE HUA JIAO *Zanthoxylum ailanthoides*, CHU YE HUA JIAO PI *Zanthoxylum ailanthoides*, CHU YE HUA JIAO GEN *Zanthoxylum ailanthoides*, CI KE HUA JIAO *Zanthoxylum echinocarpum*, DA YE CHOU HUA JIAO *Zanthoxylum myriacanthum*, DA YE HUA JIAO *Zanthoxylum dissitum*, DA YE HUA JIAO GEN *Zanthoxylum dissitum*, HUA JIAO *Zanthoxylum bungeanum*, HUA JIAO LE *Zanthoxylum cuspidatum*, HUANG XIN HUA JIAO *Zanthoxylum flavum*, MEI GUO CI JIAO *Zanthoxylum clava-hercules*, MEI ZHOU HUA JIAO *Zanthoxylum americanum* [Syn. *Xanthoxylum americanum*], RU DI JIN NIU *Zanthoxylum nitidum* (dried root: content = 0.15%<sup>[5508]</sup>), YING BU BO *Zanthoxylum avicennae*. Ref: 4, 5, 6, 658, 660, 1521, 5369, 5501, 5508.

**15632 Nitidine chloride**

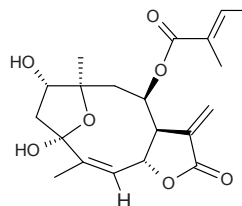
C<sub>21</sub>H<sub>18</sub>ClNO<sub>4</sub> (383.83). Yellow needles (MeOH or EtOH), mp 220°C, 238~240°C, 277~278°C (monohydrate), 284~286°C (dihydrate, dec). Source: HUA JIAO LE *Zanthoxylum cuspidatum*, RU DI JIN NIU *Zanthoxylum nitidum*. Ref: 660, 1521.

**15633 Nivalenol**

Nivalenone [23282-20-4] C<sub>15</sub>H<sub>20</sub>O<sub>7</sub> (312.33). Pharm: Antibacterial; antifungal; causes bleeding; toxin (mammal). Source: *Fusarium nivale*. Ref: 658, 1521.

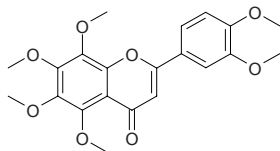
**15634 Niveusin C**

[75680-27-2] C<sub>20</sub>H<sub>26</sub>O<sub>7</sub> (378.43). Pharm: Antineoplastic; cytotoxic. Source: HUI BAI XIANG RI KUI *Helianthus canescens*, MA SHI XIANG RI KUI *Helianthus maximiliani*, XIANG RI KUI ZI *Helianthus annuus*, XUE BAI XIANG RI KUI *Helianthus niveus*. Ref: 658, 1521.

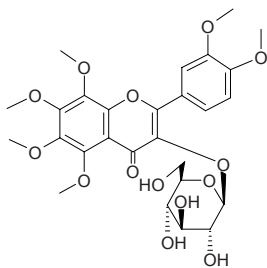


**15635 Nobiletin**

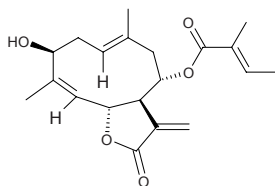
Nobiletin [10236-47-2]  $C_{21}H_{22}O_8$  (402.40). Light yellow acicular crystals ( $CHCl_3$ ), mp 127~129°C; mp 137~138°C. **Pharm:** Antineoplastic (mus, *in vivo*, Lewis lung cancer and  $W_{256}$ ); cytotoxic (KB *in vitro*,  $ED_{50} = 3\sim 28\mu g/mL$ ); cytotoxic (HeLa,  $IC_{50} = 30.4\mu g/mL$ , control Mitomycin C,  $IC_{50} = 1.7\mu g/mL$ )<sup>[4092]</sup>; cytotoxic (number of tumor cell lines, antiproliferative, induces differentiation of HL-60 cells *in vitro* in a concentration-dependent manner)<sup>[5369]</sup>; cytotoxic (inhibits invasion of mus MO4 cells into embryonic chick heart fragments *in vitro*)<sup>[5369]</sup>; antifungal (*Deuterophoma tracheiphila*); antithrombotic; platelet aggregation inhibitor (rat, orl, *in vivo*); anti-inflammatory (Ungar method,  $ED_{25} = 20mg/kg$ , intensity of anti-inflammation 50u/g); anti-inflammatory (modulator of cytokine network: modulator of cytokine network: effectively inhibits production of  $PGE_2$  and proMMP-9 in rabbit synovial fibroblasts)<sup>[4416]</sup>; anti-inflammatory (suppresses IL-1 $\beta$ -induced production of  $PGE_2$  in hmn synovial fibroblasts,  $IC_{50} < 4\mu mol/L$ ; decreases expression of IL-1 $\alpha$ , IL-1 $\beta$ , TNF- $\alpha$  and IL-6 mRNAs in J774A.1 macrophages at  $32\mu mol/L$ ; a suggested lead compound to develop novel anti-inflammatory or immunomodulatory drugs)<sup>[4416]</sup>. **Source:** CHUAN JU *Citrus nobilis*, ZHI KE *Citrus aurantium*, JIAO GAN *Citrus tankan*, JU PI *Citrus reticulata*, JIN GAN *Fortunella japonica*, JIAO GAN PI *Citrus tankan*, JIN JU 桔 *Fortunella margarita*, LEI GONG TENG *Tripterygium wilfordii*, TUAN JI AI NA XIANG *Blumea glomerata*. **Ref:** 4, 5, 658, 660, 683, 4092, 4416, 5369, 5501.

**15636 Nobiletin-3-O- $\beta$ -D-glucoside**

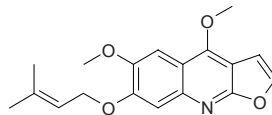
$C_{27}H_{32}O_{14}$  (580.55). **Source:** JU PI *Citrus reticulata* (dried ripe pericarp: content scope = 0.051%~0.51%, mean content = 0.24%)<sup>[5508]</sup>, TIAN CHENG *Citrus sinensis*<sup>[2682]</sup>. **Ref:** 2682, 5508.

**15637 Nobilin**

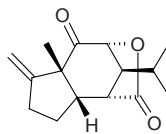
[31824-11-0]  $C_{20}H_{26}O_5$  (346.43). **Pharm:** Antineoplastic; cytotoxic. **Source:** GAO GUI CHUN HUANG JU *Anthemis nobilis*. **Ref:** 658, 1521.

**15638 Nobiline**

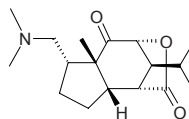
$C_{18}H_{19}NO_4$  (313.36). Brown plates, mp 125~126°C. **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). **Ref:** 3503.

**15639 Nobilomethylene**

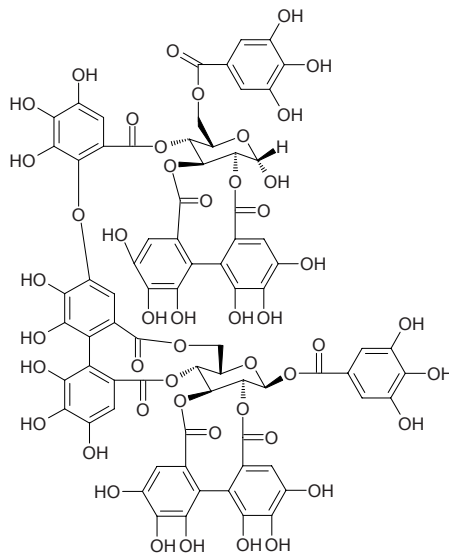
[38750-01-5]  $C_{15}H_{20}O_3$  (248.32). Crystals (hexane), mp 159.5~160.5°C. **Source:** SHI HU<sup>(4)</sup> *Dendrobium nobile*. **Ref:** 2683.

**15640 Nobilonine**

[4684-24-6]  $C_{17}H_{27}NO_3$  (293.41). mp 86°C. **Source:** SHI HU<sup>(4)</sup> *Dendrobium nobile*. **Ref:** 6, 1521.

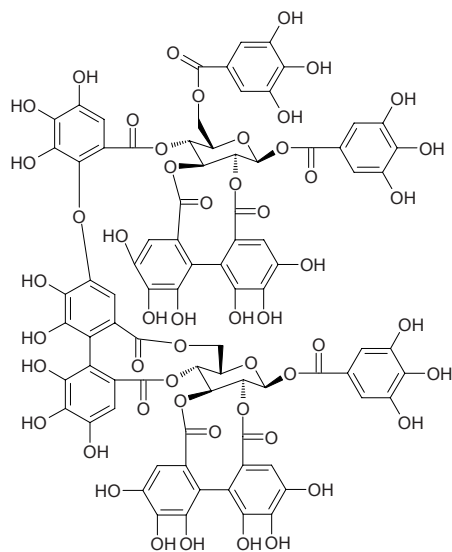
**15641 Nobotanin A**

[98725-99-6]  $C_{75}H_{52}O_{48}$  (1721.22). White-like amorphous powder,  $[\alpha]_D = +88^\circ$  ( $c = 1.0$ , MeOH). **Pharm:** Antineoplastic ( $S_{180}$ , 10mg/kg ip, biotic prolonged rate = 126.6%). **Source:** HONG MAO YE HAI TANG *Bredia tuberculata*, HONG WEI SUAN JIAO GAN *Medinilla magnifica*, *Tibouchina semidecandra*. **Ref:** 2684, 2685, 2686, 2687.

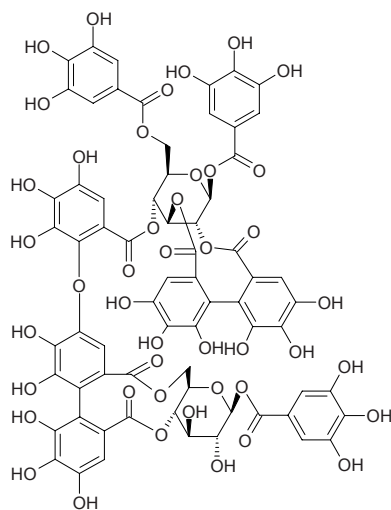


**15642 Nobotanin F**

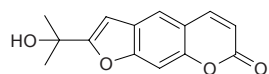
[104669-05-8]  $C_{82}H_{56}O_{52}$  (1873.33). White-like amorphous powder,  $[\alpha]_D^{25} = +60^\circ$  ( $c = 0.5$ , MeOH). **Pharm:** Antineoplastic ( $S_{180}$ , 5mg/kg ip, biotic prolonged rate = 76.4%). **Source:** HONG MAO YE HAI TANG *Bredia tuberculata*, HONG WEI SUAN JIAO GAN *Medinilla magnifica*, *Heterocentron roseum*, *Tibouchina semidecandra*. **Ref:** 2684, 2685, 2686, 2687, 2688.

**15643 Nobotanin R**

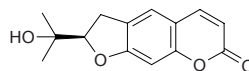
$C_{68}H_{50}O_{44}$  (1571.13). Off-white amorphous powder,  $[\alpha]_D^{27} = +86.5^\circ$  ( $c = 1.0$ , MeOH). **Source:** *Monochaetum multiflorum* (leaf). **Ref:** 3758.

**15644 Nodachenetin**

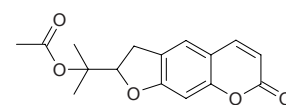
$C_{14}H_{12}O_4$  (244.25). **Source:** AO PA CAO *Oppopanax chironium* (root). **Ref:** 4071.

**15645 Nodakenetin**

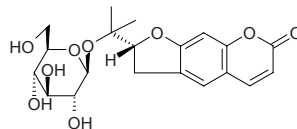
Prangeferol [495-32-9]  $C_{14}H_{14}O_4$  (246.27). Colorless rhombic crystals (ethyl acetate-petroleum ether), mp 190–192°C,  $[\alpha]_D^{22} = -22.3^\circ$  ( $c = 0.634$ , chloroform). **Pharm:** Calcium antagonist; cytotoxic ( $P_{388}$ ); platelet aggregation inhibitor (hmn, *in vitro*). **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], QIANG HUO *Notopterygium incisum*, CHAO XIAN DANG GUI *Angelica gigas*, *Ptelea* sp. **Ref:** 297, 566, 658, 660, 900.

**15646 Nodakenetin acetate**

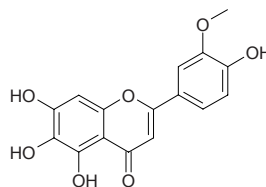
$C_{16}H_{16}O_5$  (288.30). mp 134–135°C. **Source:** YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

**15647 Nodakenin**

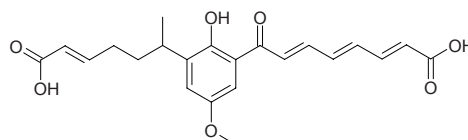
(+)-Marmesinin [495-31-8]  $C_{20}H_{24}O_9$  (408.41). Lobulette form solid (ethanol), mp 217–219°C,  $[\alpha]_D = +24^\circ$  ( $c = 0.9$ , ethanol:water = 1:1). **Pharm:** Cytotoxic ( $L_{1210}$ ); platelet aggregation inhibitor (hmn, due to ADP, 1.0mmol/L, InRt = 70%); AChE inhibitor (*in vitro*,  $IC_{50} = 68\mu\text{mol/L}$ )<sup>[3058]</sup>. **Source:** BAI HUA QIAN HU *Peucedanum praeruptorum*, BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*], DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*], E SHEN *Anthriscus sylvestris*, KUAN YE QIANG HUO *Notopterygium forbesii* [Syn. *Notopterygium franchetii*], QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*] (in 1973, the compound was isolated from the plant)<sup>[5505]</sup>, QIANG HUO *Notopterygium incisum*, CHAO XIAN DANG GUI *Angelica gigas* (underground part)<sup>[3058]</sup>. **Ref:** 2, 566, 660, 900, 3058, 5501, 5505.

**15648 Nodifloretin**

[23494-48-6]  $C_{16}H_{12}O_7$  (316.27). mp 250–253°C. **Source:** PENG LAI CAO *Lippia nodiflora*. **Ref:** 6, 1521.

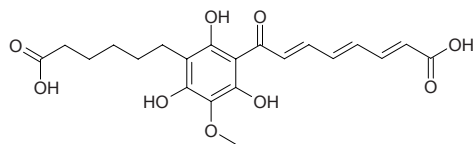
**15649 Nodifloridin A**

$C_{22}H_{24}O_7$  (400.43). **Source:** PENG LAI CAO *Lippia nodiflora*. **Ref:** 6.

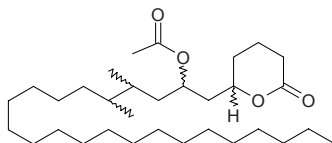


**15650 Nodifloridin B**

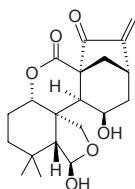
$C_{21}H_{24}O_9$  (420.42). Source: PENG LAI CAO *Lippia nodiflora*. Ref: 6.

**15651 Nodolide**

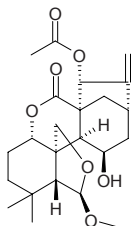
[37577-42-7]  $C_{32}H_{60}O_4$  (508.83). Crystals (MeOH- $CHCl_3$ ), mp 69~70°C,  $[\alpha]_D^{27} = -12.3^\circ$ . Source: SHEN HUANG DOU *Cassia nodosa*. Ref: 6, 1521.

**15652 Nodosin**

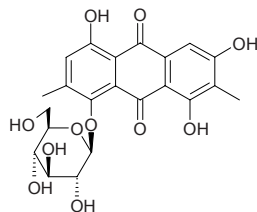
[10391-09-0]  $C_{20}H_{26}O_6$  (362.43). Crystals, mp 275~280°C (dec),  $[\alpha]_D^{17} = -203^\circ$ ,  $[\alpha]_D^{20} = -225.3^\circ$  ( $c = 0.38$ ,  $C_5H_5N$ ). Pharm: Bitter principle; antibacterial (gram-positive bacteria); insect growth inhibitor; cytotoxic (K562 cells, MTT method,  $IC_{50} = 1.43\mu g/mL$ , control *cis*-Platin,  $IC_{50} = 0.53\mu g/mL$ )<sup>[3808]</sup>. Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*], HEI HUA YAN MING CAO *Isodon trichocarpus*, SHAN DI XIANG CHA CAI *Isodon oresbia* (aerial parts). Ref: 1521, 3808, 4067.

**15653 Nodosinin**

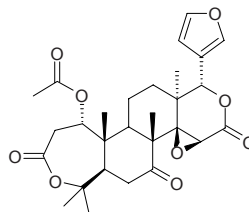
$C_{23}H_{32}O_7$  (420.51). mp 281~284°C,  $[\alpha]_D^{26} = -211^\circ$  ( $c = 0.11$ ,  $CHCl_3$ ). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*]. Ref: 4067.

**15654 Nodososide**

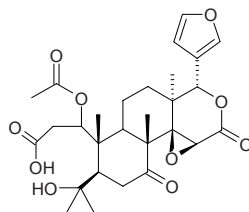
$C_{22}H_{22}O_{11}$  (462.41). Source: SHEN HUANG DOU *Cassia nodosa*. Ref: 6.

**15655 Nomilin**

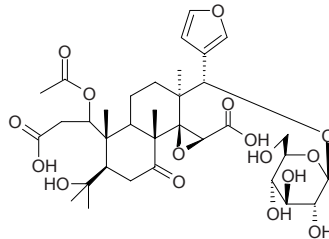
[1063-77-0]  $C_{28}H_{34}O_9$  (514.58). mp 278~279°C. Pharm: Bitter principle; insect antifeedant; anti-HIV-1 (40 $\mu mol/L$ , InRt = (77 $\pm$ 11)%, control Indinavir, 100nmol/L, InRt = 100%)<sup>[5462]</sup>. Source: CHENG ZI *Citrus junos*, CHENG ZI HE *Citrus junos*, FU JU *Citrus tangemna*, JU HE *Citrus reticulata*, YIN DU LIAN *Azadiractica indica*, ZHU JU *Citrus erythrosa*. Ref: 6, 658, 5462.

**15656 Nomilinic acid**

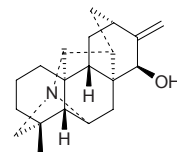
[35930-20-2]  $C_{28}H_{36}O_{10}$  (532.59). Noncrystal. Source: CHENG ZI *Citrus junos*, ZHI SHI *Citrus aurantium*. Ref: 660, 1521.

**15657 Nomilinic acid glucoside**

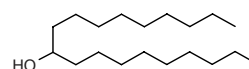
$C_{34}H_{48}O_{16}$  (712.75). Source: ZHI SHI *Citrus aurantium*. Ref: 2689.

**15658 Nominine**

[79808-87-0]  $C_{12}H_{31}NO$  (123.49). Colorless wedge-shape crystals ( $Et_2O$ -MeOH), mp 258~260°C,  $[\alpha]_D = +71.8^\circ$  ( $c = 1.26$ , methanol). Pharm: Antiarrhythmic (rat, induced by aconitine,  $ED_{50} = 5mg/kg$ );  $LD_{50}$  (rat) = 68.0mg/kg. Source: GAN WAN WU TOU *Aconitum finetianum*, SHAN YANG WU TOU *Aconitum sanyoense*, ZE WU TOU *Aconitum zeravschanicum*. Ref: 2690, 2691, 2692, 2693, 2694.

**15659 Nonacetyl alcohol-10**

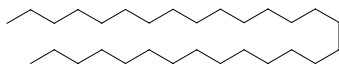
Celidonol [16840-84-9]  $C_{19}H_{40}O$  (284.53). mp 82.5°C. Source: BAI GUO *Ginkgo biloba*, BAI GUO YE *Ginkgo biloba*, BAI QU CAI *Chelidonium majus*, JU HUA HUANG LIAN *Corydalis pallida*. Ref: 2, 6.



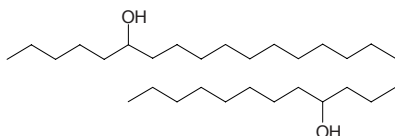


**15660 Nonacosane**

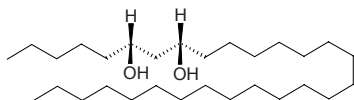
[630-03-5]  $C_{29}H_{60}$  (408.80). Source: DU ZHONG *Eucommia ulmoides*, HONG HUA *Carthamus tinctorius*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XIAN HE CAO *Agrimonia pilosa* var. *japonica*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*], ZHONG MA HUANG *Ephedra intermedia*. Ref: 2, 660.

**15661 Nonacosanediol-6,21**

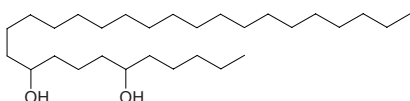
[96850-31-6]  $C_{29}H_{60}O_2$  (440.80). Source: PU HUANG *Typha angustata*. Ref: 2, 1521, 2779.

**15662 Nonacosanediol-6,8**

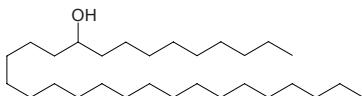
[96850-33-8]  $C_{29}H_{60}O_2$  (440.80). Crystals ( $Me_2CO-MeOH$ ), mp 72–74°C. Source: HONG HUA *Carthamus tinctorius*, PU HUANG *Typha angustata*. Ref: 2, 1521, 2779.

**15663 Nonacosanediol-6,10**

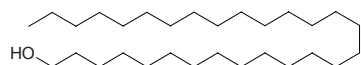
6,10-Nonacosanediol [71418-30-9]  $C_{29}H_{60}O_2$  (440.80). Source: FU SHE SONG *Pinus radiata*, PU HUANG *Typha angustata*. Ref: 2, 1521, 2779.

**15664 10-Nonacosanol**

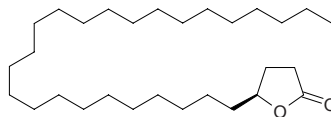
[2606-50-0]  $C_{29}H_{60}O$  (424.80). Crystals ( $EtOH$ ,  $Me_2CO$  or hexane), mp 83–84°C. Source: BAI GUO *Ginkgo biloba*, BAI QU CAI *Chelidonium majus*, CE BAI YE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*], HE YE *Nelumbo nucifera*, SU TIE SHU GUO *Cycas revoluta*, TU CHUANG HUA *Dicranostigma franchetianum* [Syn. *Dicranostigma leptopodum*], WU WEI CAO *Corydalis taliensis*, YA PIAN *Papaver somniferum*, YU JIN XIANG *Tulipa gesneriana*, ZI SHAN *Taxus cuspidata*, *Chamaecyparis* spp. Ref: 660, 1521.

**15665 Nonacosanol**

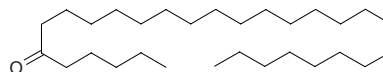
[25154-56-7]  $C_{29}H_{60}O$  (424.80). Source: ZHONG MA HUANG *Ephedra intermedia*, HUANG HUA HAO *Artemisia annua*. Ref: 2, 660.

**15666 Nonacosan-4-olide**

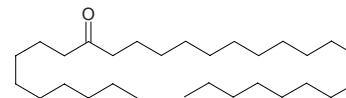
$C_{29}H_{56}O_2$  (436.77). Source: FU CHUI FE LAO JU *Flourensia cernua*. Ref: 3433.

**15667 6-Nonacosanone**

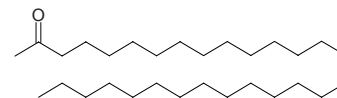
$C_{29}H_{58}O$  (422.79). Source: KU LANG SHU *Clerodendrum inerme*. Ref: 3382.

**15668 10-Nonacosanone**

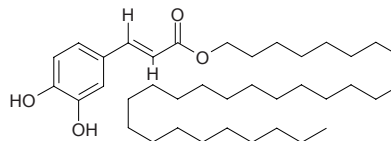
$C_{29}H_{58}O$  (422.79). mp 74–75°C. Source: BAI GUO YE *Ginkgo biloba*, JI MAO SONG *Podocarpus imbricatus*. Ref: 6, 544.

**15669 2-Nonacosanone**

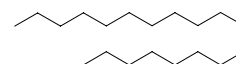
$C_{29}H_{58}O$  (422.79). Source: ROU CONG RONG *Cistanche deserticola*. Ref: 2.

**15670 Nonacosanyl caffeate**

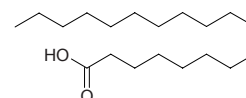
3,4-Dihydroxy-*trans*-cinnamic acid nonacosanylester  $C_{38}H_{66}O_4$  (586.95). Pharm: Anti-inflammatory (COX-1 inhibitor, 1000  $\mu mol/L$ ,  $InRt = (52 \pm 2)\%$ , positive control Indomethacin, 1.7  $\mu mol/L$ ,  $InRt = (43 \pm 3)\%$ ). Source: LUO YE SONG YE JIN SI TAO *Hypericum laricifolium* (aerial parts). Ref: 4413.

**15671 n-Nonadecane**

Nonadecane [629-92-5]  $C_{19}H_{40}$  (268.53). Source: DANG SHEN *Codonopsis pilosula*, ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2.

**15672 Nonadecanoic acid**

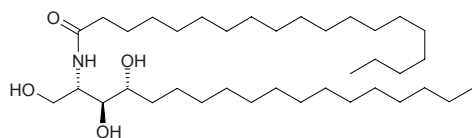
Nonadecylic acid [646-30-0]  $C_{19}H_{38}O_2$  (298.51). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.



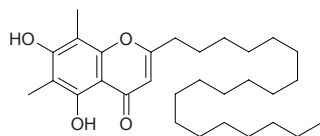


**15673 (2S,3S,4R)-2-Nonadecanoylamino-octadecane-1,3,4-triol**

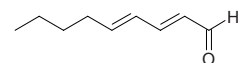
$C_{37}H_{75}NO_4$  (598.01). Colorless solid, mp 122~124°C,  $[\alpha]_D^{28} = +19.2^\circ$  (c = 0.5,  $CHCl_3$ ). [Source](#): *Lobophytum* sp. [Ref](#): 4432.

**15674 2-*n*-Nonadecyl-5,7-dihydroxy-6,8-dimethyl chromone**

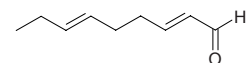
$C_{30}H_{48}O_4$  (472.71). [Source](#): KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. [Ref](#): 2695.

**15675 2,4-Nonadienal**

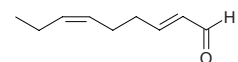
$C_9H_{14}O$  (138.21). [Source](#): DANG SHEN *Codonopsis pilosula*. [Ref](#): 2696.

**15676 2,6-Nonadienal**

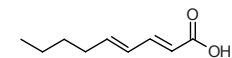
[17587-33-6]  $C_9H_{14}O$  (138.21). bp 85~87°C/11 mmHg. [Pharm](#): Main odiferous component in cucumber *Cucumis sativus* HUANG GUA. [Source](#): HUANG GUA *Cucumis sativus*. [Ref](#): 6, 658.

**15677 2E,6Z-Nonadienal**

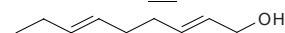
[557-48-2]  $C_9H_{14}O$  (138.21). Liquid with cucumber odour, bp 94~98°C/11mmHg. [Source](#): HUANG GUA *Cucumis sativus*. [Ref](#): 660, 1521.

**15678 2,4-Nonadienic acid**

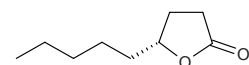
$C_9H_{14}O_2$  (154.21). [Source](#): DANG SHEN *Codonopsis pilosula*. [Ref](#): 2.

**15679 2,6-Nonadienol**

$C_9H_{16}O$  (140.23). bp 95.5~100.0°C/11mmHg. [Source](#): HUANG GUA *Cucumis sativus*. [Ref](#): 6.

**15680 γ-Nonalactone**

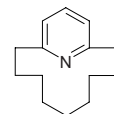
[104-61-0]  $C_9H_{16}O_2$  (156.23). [Pharm](#): Component of coconut flavorant. [Source](#): YE ZI RANG *Cocos nucifera*. [Ref](#): 658, 1521.

**15681 Nonaldehyde**

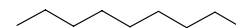
Nonylaldehyde [124-19-6]  $C_9H_{18}O$  (142.24). bp 190~192°C. [Source](#): CAO MEI *Fragaria ananassa*, CHENG GAN CAO *Eupatorium japonicum*, DA MA YE ZE LAN *Eupatorium cannabinum*, DONG LING CAO *Rabdosia rubescens*, GAN JIANG *Zingiber officinale*, HUA ZE LAN *Eupatorium chinense*. [Ref](#): 2, 660.

**15682 2,6-Nonamethylene pyridine**

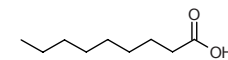
$C_{14}H_{21}N$  (203.33). [Source](#): SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. [Ref](#): 2.

**15683 n-Nonane**

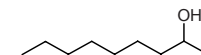
Nonane [111-84-2]  $C_9H_{20}$  (128.26). [Source](#): SHENG JIANG *Zingiber officinale*, DU HUO *Angelica pubescens* f. *biserrata* [Syn. *Angelica pubescens*]. [Ref](#): 2.

**15684 Nonanoic acid**

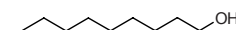
Pelargonic acid [112-05-0]  $C_9H_{18}O_2$  (158.24). [Source](#): CHAI HU *Bupleurum chinense*, DANG SHEN *Codonopsis pilosula*, GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GUA LOU *Trichosanthes kirilowii*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SHUANG BIAN GUA LOU *Trichosanthes rosthornii* [Syn. *Trichosanthes uniflora*], XI YANG SHEN *Panax quinquefolium*. [Ref](#): 2, 660.

**15685 2-Nonanol**

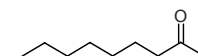
[628-99-9]  $C_9H_{20}O$  (144.26). [Source](#): GAN JIANG *Zingiber officinale*. [Ref](#): 2.

**15686 n-Nonanol**

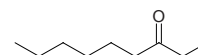
Nonyl alcohol [143-08-8]  $C_9H_{20}O$  (144.26). bp 215°C. [Source](#): SHENG JIANG *Zingiber officinale*. [Ref](#): 2.

**15687 2-Nonanone**

Methylheptyl-ketone [821-55-6]  $C_9H_{18}O$  (142.24). [Source](#): SHENG JIANG *Zingiber officinale*, YIN CHEN HAO *Artemisia capillaris*. [Ref](#): 2.

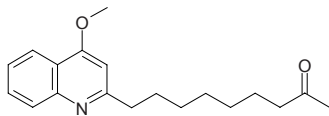
**15688 3-Nonanone**

[925-78-0]  $C_9H_{18}O$  (142.24). Liquid, fp -8°C, bp 190°C, bp 86°C/20mmHg. [Pharm](#): Alarm pheromone of insect. [Source](#): BEI AI *Artemisia vulgaris*. [Ref](#): 1521, 2697.

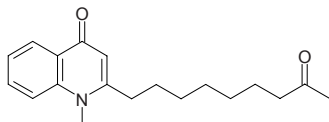


**15689 2-(Nonan-8-one)-4-methoxy-quinoline**

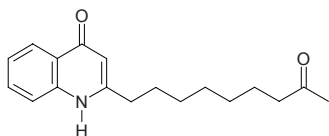
$C_{19}H_{25}NO_2$  (299.42). Source: MENG DA NA YUN XIANG *Ruta Montana* (whole herb). Ref: 3910.

**15690 2-(Nonan-8-one)-N-methyl-4-quinolone**

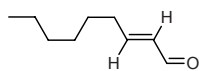
$C_{19}H_{25}NO_2$  (299.42). Source: MENG DA NA YUN XIANG *Ruta Montana* (whole herb). Ref: 3910.

**15691 2-(Nonan-8-one)-(1H)-4-quinolone**

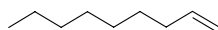
$C_{18}H_{23}NO_2$  (285.39). Source: MENG DA NA YUN XIANG *Ruta Montana* (whole herb). Ref: 3910.

**15692 (E)-2-Nonenal**

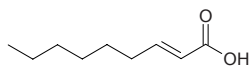
[18829-56-6]  $C_9H_{16}O$  (140.23). Source: XING REN *Prunus armeniaca*. Ref: 2.

**15693 1-Nonene**

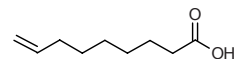
[124-11-8]  $C_9H_{18}$  (126.24). bp 146°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**15694 2-Nonenoic acid**

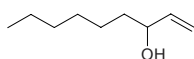
$C_9H_{16}O_2$  (156.23). Source: CHAI HU *Bupleurum chinense*. Ref: 2.

**15695 8-Nonenoic acid**

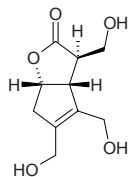
[31642-67-8]  $C_9H_{16}O_2$  (156.23). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**15696 1-Nonen-3-ol**

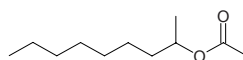
Hexylvinylcarbinol [21964-44-3]  $C_9H_{18}O$  (142.24). bp 193~194°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**15697 Non-glycosidic iridoid**

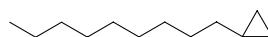
$C_{10}H_{14}O_5$  (214.22). Viscous syrup,  $[\alpha]_D^{28} = -30.6^\circ$  ( $c = 0.72$ , MeOH). Source: XIE JI CU YE MU *Lasianthus wallichii* (leaf). Ref: 4238.

**15698 2-Nonyl acetate**

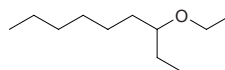
[14936-66-4]  $C_{11}H_{22}O_2$  (186.30). Source: CHOU CAO *Ruta graveolens*. Ref: 6.

**15699 Nonyl cyclopropane**

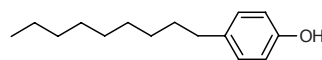
$C_{12}H_{24}$  (168.33). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 2.

**15700 Nonyl ethyl ether**

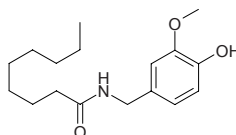
Ethyl nonyl ether [16979-32-1]  $C_{11}H_{24}O$  (172.31). bp 88°C/21mmHg. Source: WEN PO *Cydonia oblonga*. Ref: 6.

**15701 Nonylphenol**

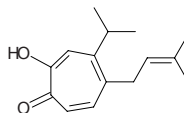
4-Nonylphenol [25154-52-3]  $C_{15}H_{24}O$  (220.36). Source: WU WEI ZI *Schisandra chinensis*. Ref: 2.

**15702 Nonyl vanillylamide**

[2444-46-4]  $C_{17}H_{27}NO_3$  (293.41). Source: LA JIAO *Capsicum frutescens*. Ref: 6.

**15703 Nootkatin**

[4431-03-2]  $C_{15}H_{20}O_2$  (232.33). mp 95°C. Source: SHAN CI BAI *Juniperus taiwaniana*. Ref: 6.



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