

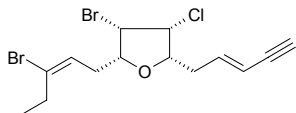
## **Volume 2    Isolated Compounds (D-G)**

# D

## 4595 Dactylene

$C_{14}H_{17}Br_2ClO$  (396.55). mp 62~63°C,  $[\alpha]_D^{25} = -38.2^\circ$  ( $c = 0.19$ ,  $CHCl_3$ ).

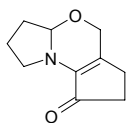
Source: *Laurencia* sp., *Aplysia dactylomela*. Ref: 2306.



## 4596 Daechu alkaloid A

$C_{10}H_{13}NO_2$  (179.22). Source: WU CI ZAO *Ziziphus jujuba* var. *inermis*.

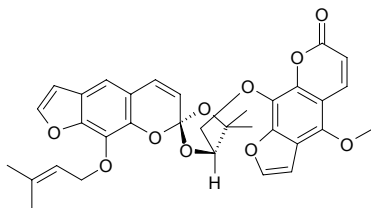
Ref: 660.



## 4597 Dahuribirin A

$C_{33}H_{30}O_{10}$  (586.60). Colorless viscous oil,  $[\alpha]_D^{28} = -3.6^\circ$  ( $c = 0.48$ ,

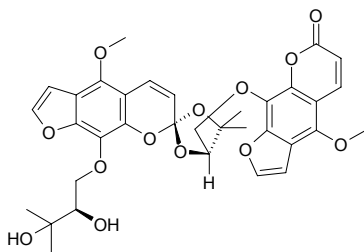
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



## 4598 Dahuribirin B

$C_{34}H_{34}O_{13}$  (650.64). Colorless viscous oil,  $[\alpha]_D^{30} = -4.6^\circ$  ( $c = 0.59$ ,

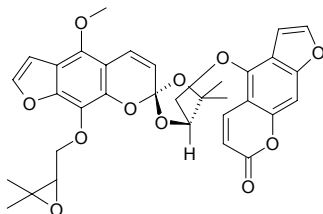
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



## 4599 Dahuribirin C

$C_{33}H_{30}O_{11}$  (602.60). Colorless viscous oil,  $[\alpha]_D^{31} = +20.0^\circ$  ( $c = 0.48$ ,

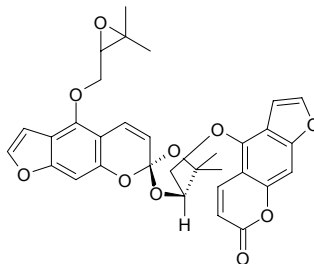
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



## 4600 Dahuribirin D

$C_{32}H_{28}O_{10}$  (572.57). Colorless viscous oil,  $[\alpha]_D^{24} = -0.22^\circ$  ( $c = 0.65$ ,

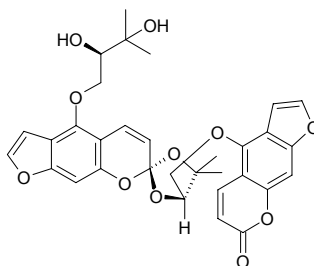
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



## 4601 Dahuribirin E

$C_{32}H_{30}O_{11}$  (590.59). Colorless viscous oil,  $[\alpha]_D^{24} = +4.6^\circ$  ( $c = 0.62$ ,

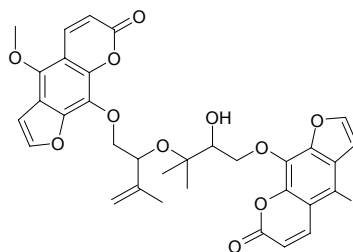
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



## 4602 Dahuribirin F

$C_{34}H_{32}O_{12}$  (632.63). Colorless viscous oil,  $[\alpha]_D^{24} = -1.1^\circ$  ( $c = 0.49$ ,

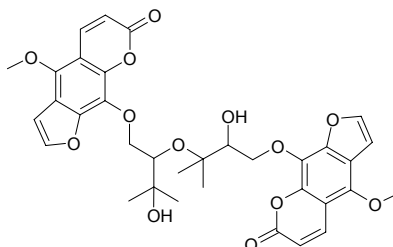
dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.



## 4603 Dahuribirin G

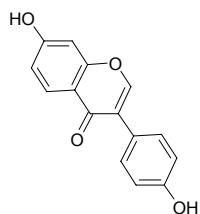
$C_{34}H_{34}O_{13}$  (650.64). Colorless viscous oil,  $[\alpha]_D^{24} = +5.2^\circ$  ( $c = 0.54$ ,

dioxane). Source: BAI ZHI *Angelica dahurica* [Syn. *Angelica porphyrocaulis*]. Ref: 4118.

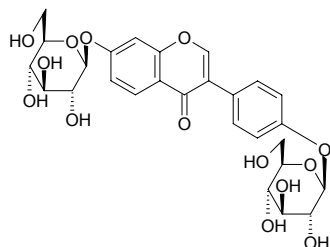


**4604 Daidzein**

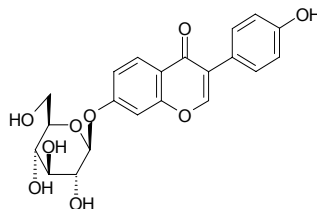
4',7-Dihydroxyisoflavone [486-66-8]  $C_{15}H_{10}O_4$  (254.24). **Pharm:** Antifungal; antispasmodic (mus small intestine); CVS activity (enhances collateral circulation and oxygen consumption upon lack of blood in myocardium); estrogenic activity; increases coronary flow (narcosis dog); lipase inhibitor; anti-inflammatory (NO production inhibitor)<sup>[4415]</sup>; cytotoxic (KB,  $IC_{50} > 75\mu\text{mol/L}$ , Helenalin,  $IC_{50} = (0.64 \pm 0.08)\mu\text{mol/L}$ , Melphalan,  $IC_{50} = (6.0 \pm 0.5)\mu\text{mol/L}$ ; Mono-Mac-6,  $IC_{50} > 75\mu\text{mol/L}$ , Helenalin,  $IC_{50} = (3.1 \pm 0.3)\mu\text{mol/L}$ ; Jurkat-T,  $IC_{50} > 75\mu\text{mol/L}$ , Helenalin,  $IC_{50} = (1.14 \pm 0.08)\mu\text{mol/L}$ , Melphalan,  $IC_{50} = (9.1 \pm 0.8)\mu\text{mol/L}$ )<sup>[5077]</sup>; antibacterial (*Staphylococcus aureus*, MIA = 1.00 $\mu\text{g}$ , Chloramphenicol, MIA = 0.0001 $\mu\text{g}$ ; *Bacillus subtilis*, MIA = 5.00 $\mu\text{g}$ , Chloramphenicol, MIA = 0.0001 $\mu\text{g}$ )<sup>[5247]</sup>; antifungal (*Candida mycoderma*, MIA = 0.05 $\mu\text{g}$ , control Miconazole, MIA = 0.0001 $\mu\text{g}$ )<sup>[5247]</sup>; antioxidant (DPPH scavenger, TLC, MIA = 0.1 $\mu\text{g}$ ,  $IC_{50} = 380\mu\text{g/mL}$ ; control Quercetin, MIA < 0.05 $\mu\text{g}$ ,  $IC_{50} = 7\mu\text{g/mL}$ , Gallic acid, MIA < 0.05 $\mu\text{g}$ ,  $IC_{50} = 4\mu\text{g/mL}$ ; Ascorbic acid, MIA < 0.10 $\mu\text{g}$ ,  $IC_{50} = 18\mu\text{g/mL}$ )<sup>[5247]</sup>. **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0058%dw)<sup>[4630]</sup>, E MEI GE *Pueraria omeiensis* (root: content = 0.055%)<sup>[5508]</sup>, FEN GE *Pueraria lobata* var. *thomsonii* (root: mean content of 2 origins = 0.035%)<sup>[5508]</sup>, GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: mean content of 10 origins = 0.137%)<sup>[5508]</sup>, HEI DA DOU *Glycine max*, HONG CHE ZHOU CAO *Trifolium pratense*, HUANG HUA MU *Piptanthus nepalensis*, HUANG MAO GE *Pueraria calycina* (root: content = 0.030%)<sup>[5508]</sup>, JI KUAN CI TONG *Erythrina latissima* (stem wood), MU XU *Medicago sativa*, SAN LIE YE GE *Pueraria phaseoloides* (root: content = 0.090%)<sup>[5508]</sup>, SAN XIAO CAO *Trifolium repens*, SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*], SHI YONG GE *Pueraria edulis* (root: content = 0.063%)<sup>[5508]</sup>, SI TE WEN HUANG TAN *Dalbergia stevensonii*, YUN NAN GE TENG *Pueraria peduncularis* (root: content = 0.053%)<sup>[5508]</sup>, *Bituminaria morisiana* (leaf). **Ref:** 2, 4, 658, 660, 4415, 4630, 5077, 5247, 5508.

**4605 Daidzein 4',7-diglucoside**

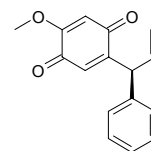
$C_{27}H_{30}O_{14}$  (578.53). **Source:** GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: mean content of 7 origins = 0.453%)<sup>[5508]</sup>, GAN GE TENG GEN *Pueraria thomsonii*. **Ref:** 2, 660, 5508.

**4606 Daidzin**

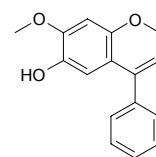
Daidzioside [552-66-9]  $C_{21}H_{20}O_9$  (416.39). **Source:** DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.0074%dw)<sup>[4630]</sup>, E MEI GE *Pueraria omeiensis* (root: content = 1.0–5%)<sup>[5508]</sup>, FEN GE *Pueraria lobata* var. *thomsonii* (root: content = 1.51%)<sup>[5508]</sup>, GAN GE TENG GEN *Pueraria thomsonii* (root: content = 0.158%)<sup>[5508]</sup>, GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*] (root: content = 0.78%)<sup>[5508]</sup>, SAN LIE YE GE *Pueraria phaseoloides* (root: content = 0.72%)<sup>[5508]</sup>, SHI YONG GE *Pueraria edulis* (root: content = 0.44%)<sup>[5508]</sup>. **Ref:** 2, 660, 4630, 5508.

**4607 Dalbergenone**

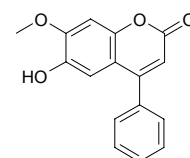
[2543-95-5]  $C_{16}H_{14}O_3$  (254.29). mp 114–116°C. **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 6.

**4608 Dalbergichromene**

7-Methoxy-4-phenyl-2H-1-benzopyran-6-ol [32066-31-2]  $C_{16}H_{14}O_3$  (254.29). mp 99–100°C. **Source:** JIANG ZHEN XIANG *Dalbergia odorifera*. **Ref:** 6.

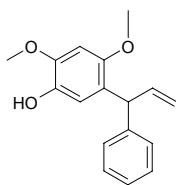
**4609 Dalbergin**

6-Hydroxy-7-Methoxy-4-phenylcoumarin [482-83-7]  $C_{16}H_{12}O_4$  (268.27). mp 210°C. **Pharm:** CVS activity (increases coronary flow and slows heart rate, perfused heart of rabbit *in vitro*). **Source:** FEI ZHOU HUANG TAN *Dalbergia melanoxylon*, HE AN HUANG TAN *Dalbergia riparia*, JIANG ZHEN XIANG *Dalbergia odorifera*, JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0024%dw)<sup>[4716]</sup>, SI TE WEN HUANG TAN *Dalbergia stevensonii*, XI A LA HUANG TAN *Dalbergia cearensis*, XIAO DAO XING HUANG TAN *Dalbergia cultrata*, YIN DU HUANG TAN *Dalbergia sissoo*. **Ref:** 6, 658, 4716.

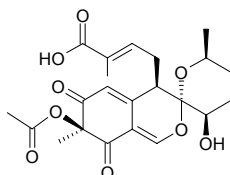


**4610 Dalbergiphenol**

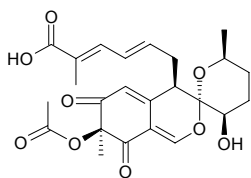
$C_{17}H_{18}O_3$  (270.33). Pharm: Testosterone 5 $\alpha$ -reductase inhibitor (25 $\mu$ g/mL, InRt = 8.2%, 50 $\mu$ g/mL, InRt = 18.9%, 100 $\mu$ g/mL, InRt = 51.8%; control Glycyrrhetic acid, 25 $\mu$ g/mL, InRt = 31.7%, 50 $\mu$ g/mL, InRt = 64.7%, 100 $\mu$ g/mL, InRt = 87.1%). Source: JIAO ZHI HUANG TAN *Dalbergia cochinchinensis* (stem: yield = 0.0074%dw). Ref: 4716.

**4611 Daldinin C**

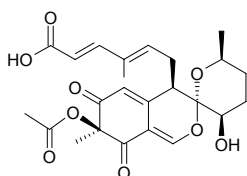
$C_{22}H_{26}O_9$  (434.45). Pharm: Antioxidant (DPPH scavenger,  $IC_{50}$  = 412.0 $\mu$ mol/L, control Ascorbic acid,  $IC_{50}$  = 16.5 $\mu$ mol/L). Source: AN ZONG TAN TAN TUAN JUN *Hypoxylon fuscum*. Ref: 3771.

**4612 Daldinin E**

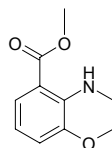
(2*E*,4*E*)-Hexa-2,4-dienoic acid, 2-methyl-7*S*-(acetyloxy)-3',4,4',5',6,6',7,8-octahydro-3'-hydroxy-6',7-dimethyl-6,8-dioxospiro[3*H*-2-benzopyran-3,2'-[2*H*]pyran]-4-yl ester  $C_{24}H_{28}O_9$  (460.49). Oil,  $[\alpha]_D^{20}$  = +87.7° ( $c$  = 0.3,  $CHCl_3$ ). Pharm: Antioxidant (DPPH scavenger,  $IC_{50}$  = 178.9 $\mu$ mol/L, control Ascorbic acid,  $IC_{50}$  = 16.5 $\mu$ mol/L). Source: AN ZONG TAN TAN TUAN JUN *Hypoxylon fuscum*. Ref: 3771.

**4613 Daldinin F**

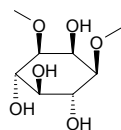
(2*E*,4*E*)-Hexa-2,4-dienoic acid, 4-methyl-7*S*-(acetyloxy)-3',4,4',5',6,6',7,8-octahydro-3'-hydroxy-6',7-dimethyl-6,8-dioxospiro[3*H*-2-benzopyran-3,2'-[2*H*]pyran]-4-yl ester  $C_{24}H_{28}O_9$  (460.49). Oil,  $[\alpha]_D^{20}$  = +28.9° ( $c$  = 0.4,  $CHCl_3$ ). Pharm: Antioxidant (DPPH scavenger,  $IC_{50}$  = 212.3 $\mu$ mol/L, control Ascorbic acid,  $IC_{50}$  = 16.5 $\mu$ mol/L). Source: AN ZONG TAN TAN TUAN JUN *Hypoxylon fuscum*. Ref: 3771.

**4614 Damascenine**

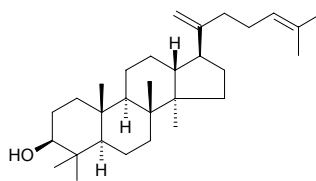
[483-64-7]  $C_{10}H_{13}NO_3$  (195.22). Pharm: Anti-inflammatory (rat, swollen foot model); antipyretic. Source: YE HEI ZHONG CAO *Nigella arvensis*, HEI ZHONG CAO *Nigella damascena*. Ref: 658.

**4615 Dambonitol**

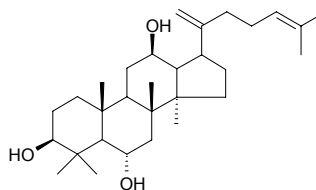
[532-94-4]  $C_8H_{16}O_6$  (208.21). mp 210°C. Source: JIA ZHU TAO *Nerium indicum*, LUO SHI TENG *Trachelospermum jasminoides*. Ref: 6.

**4616 Dammar-20,24-dien-3 $\beta$ -ol**

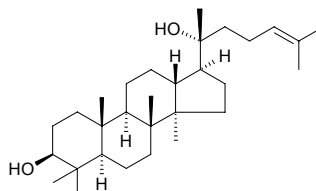
[20460-34-8]  $C_{30}H_{50}O$  (426.73). mp 136~138°C. Source: WU YUE CHA *Antidesma bunius*. Ref: 6.

**4617 Dammar-20(21),24-diene-3 $\beta$ ,6 $\alpha$ ,12 $\beta$ -triol**

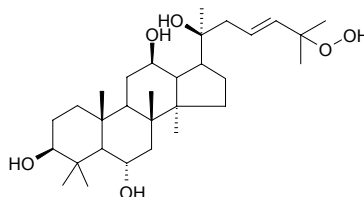
$C_{30}H_{50}O_3$  (458.73). Colorless fascicular crystals (MeOH), mp 145~148°C. Source: XI YANG SHEN JING YE *Panax quinquefolium*. Ref: 4874.

**4618 Dammar-24-ene-3 $\beta$ ,20-diol I**

[19132-83-3]  $C_{30}H_{52}O_2$  (444.75). mp 142~144°C. Source: MANG GUO SHU PI *Mangifera indica*. Ref: 6.

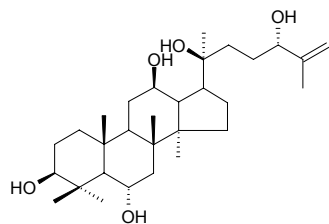
**4619 20(*S*)-Dammar-23-ene-25-hydroperoxyl-3 $\beta$ ,6 $\alpha$ ,12 $\beta$ ,20-tetrol**

$C_{30}H_{52}O_6$  (508.75). White crystalline powder, mp 142~145°C. Source: XI YANG SHEN JING YE *Panax quinquefolium*. Ref: 4874.

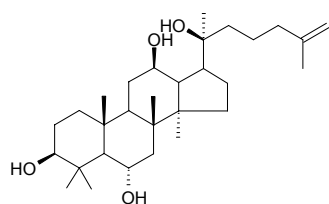


**4620 20(S),24(S)-Dammar-25(26)-ene-3 $\beta$ ,6 $\alpha$ ,12 $\beta$ ,20,24-pentanol**

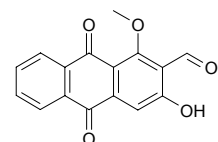
C<sub>30</sub>H<sub>52</sub>O<sub>5</sub> (492.75). White crystalline powder, mp 142~144°C. Source: XI YANG SHEN JING YE *Panax quinquefolium*. Ref: 4874.

**4621 20(S)-Dammar-25(26)-ene-3 $\beta$ ,6 $\alpha$ ,12 $\beta$ ,20-tetrol**

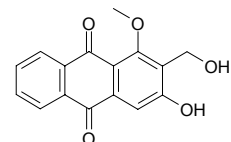
C<sub>30</sub>H<sub>52</sub>O<sub>4</sub> (476.75). Colorless fascicular crystals (MeOH), mp 259~260°C. Source: XI YANG SHEN JING YE *Panax quinquefolium*. Ref: 4874.

**4622 Damnacanthal**

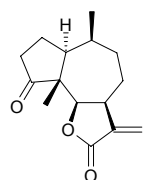
[477-84-9] C<sub>16</sub>H<sub>10</sub>O<sub>5</sub> (282.26). mp 208°C. Source: HU CI *Damnacanthus indicus*, TU LIAN QIAO *Hymenodictyon excelsum*. Ref: 6.

**4623 Damnacanthol**

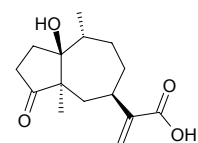
[477-83-8] C<sub>16</sub>H<sub>12</sub>O<sub>5</sub> (284.27). mp 288°C. Source: HU CI *Damnacanthus indicus*. Ref: 6.

**4624 Damsin**

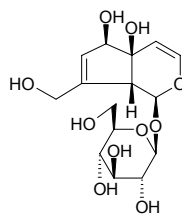
2,3-Dihydroambrosin [1216-42-8] C<sub>15</sub>H<sub>20</sub>O<sub>3</sub> (248.32). mp 109~111°C; 124~125°C. Pharm: Schistosomacide; cytotoxic (KB, ED<sub>50</sub> > 100µg/mL); molluscicide. Source: PU TONG TUN CAO *Ambrosia ambrosioides*, TUN CAO *Ambrosia artemisiifolia*. Ref: 4, 658.

**4625 Damsinic acid**

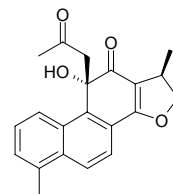
[22844-19-5] C<sub>15</sub>H<sub>22</sub>O<sub>4</sub> (266.34). mp 112~113°C. Source: TUN CAO *Ambrosia artemisiifolia*. Ref: 1521.

**4626 Danmelittoside**

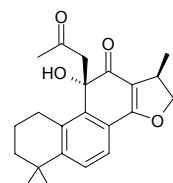
Monomelittoside C<sub>15</sub>H<sub>22</sub>O<sub>10</sub> (362.34). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], OU ZHOU MI FENG HUA *Melittis melissophyllum*. Ref: 2, 1521.

**4627 Danshenol A**

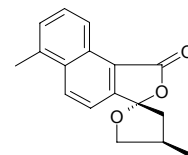
[189308-08-5] C<sub>21</sub>H<sub>20</sub>O<sub>4</sub> (336.39). Taupe acicular crystals, mp 182°C (methanol), [α]<sub>D</sub><sup>25</sup> = -136.4° (c = 0.07, chloroform). Pharm: Aldose reductase inhibitor (rat eye lens, IC<sub>50</sub> = 0.1µmol/L). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 993.

**4628 Danshenol B**

[189308-09-6] C<sub>22</sub>H<sub>26</sub>O<sub>4</sub> (354.45). Yellow acicular crystals, mp 176°C (methanol), [α]<sub>D</sub><sup>25</sup> = -131.6° (c = 0.10, chloroform). Pharm: Aldose reductase inhibitor (rat eye lens, IC<sub>50</sub> = 1.75µmol/L). Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 993.

**4629 Danshenspiroketalactone**

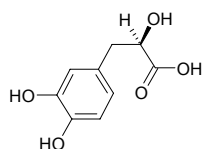
[100414-80-0] C<sub>17</sub>H<sub>16</sub>O<sub>3</sub> (268.32). White acicular crystals, mp 203~205°C. Source: DAN SHEN *Salvia miltiorrhiza*, GAN XI SHU WEI CAO *Salvia przewalskii*. Ref: 38, 4538.

**4630 Danshensu**

[76822-21-4] C<sub>9</sub>H<sub>10</sub>O<sub>5</sub> (198.18). White, long acicular crystals, mp 84~86°C; sodium salt: white acicular crystals, mp 255~258°C, [α]<sub>D</sub><sup>20.5</sup> = +35° (water); [α]<sub>D</sub><sup>27.5</sup> = +14.8° (1N HCl). Pharm: Coronary vasodilator (pig isolated coronary artery, 1.0µg/mL, also against coronary contraction induced by morphine or propranolol)<sup>[5501]</sup>; increases tolerance to anoxia (mouse ip 300mg/kg or 50mg/kg, clearly extends survival time)<sup>[5501]</sup>; anti-ischemia myocardial (rat im 20mg/kg, ischemia myocardial induced by hypophyisin)<sup>[5501]</sup>; anti-myocardial infarction (dog im 8mg/kg, rbt im 10mg/kg)<sup>[5501]</sup>; antioxidant (strong O<sub>2</sub><sup>-</sup> superoxide anion scavenger, protects myocardial ischemia-reperfusion injury in rat myocardium mitochondrial membrane)<sup>[5501]</sup>; improves barrier of microcirculation (rbt iv in ear 4~6mg/kg, induced by macromolecular dextran; mouse drop iv

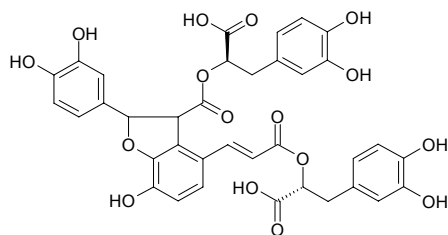
1mg/0.1mL, induced by arterenol in mesentery)<sup>[5501]</sup>; platelet aggregation inhibitor (rbt iv in ear 20mg/kg; rat iv 100mg/kg; *in vitro* 5~600µg/mL, distinctly inhibits platelet aggregation induced by ADP or thrombin)<sup>[5501]</sup>.

**Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: mean content = 0.664%)<sup>[5508]</sup> **Ref:** 661, 5501, 5508.



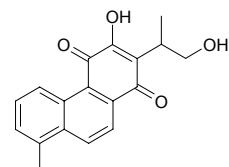
#### 4631 Danshensuan B

Salvanolic acid B [115939-25-8] C<sub>36</sub>H<sub>30</sub>O<sub>16</sub> (718.63). Amorphous yellowish powder, [α]<sub>D</sub><sup>18</sup> = +92° (c = 0.07, ethanol). **Pharm:** Free radical scavenger; fibrinolytic function; increases coronary flow; antioxidant (inhibits lipid peroxidization strongly, induced by vitamin C-nicotinamide ADP and Fe<sup>2+</sup>-cysteine in microsome of murine cerebral, hepatic and renal cells); main component of phenol character acid in *Salvia miltiorrhiza*. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2, 900.



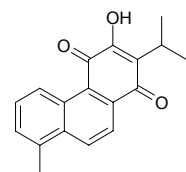
#### 4632 Danshenxinkun A

Neotanshinone A; Tanshiquinone A C<sub>18</sub>H<sub>16</sub>O<sub>4</sub> (296.33). **Pharm:** Antibacterial (*Mycobacterium tuberculosis* H37Rv, MIC = 0.78µg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 658, 1285.



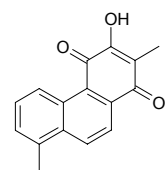
#### 4633 Danshenxinkun B

Neotanshinone B; Tanshiquinone B C<sub>18</sub>H<sub>16</sub>O<sub>3</sub> (280.33). **Pharm:** Antibacterial (*Mycobacterium tuberculosis* H37Rv, MIC = 3.1µg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 658, 1285.



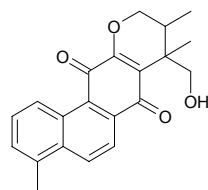
#### 4634 Danshenxinkun C

Neotanshinone C; Tanshiquinone C C<sub>16</sub>H<sub>12</sub>O<sub>3</sub> (252.27). **Pharm:** Antibacterial (*Mycobacterium tuberculosis* H37Rv, MIC = 6.3µg/mL). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 658, 1285.



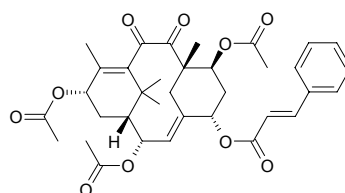
#### 4635 Danshenxinkun D

C<sub>21</sub>H<sub>20</sub>O<sub>4</sub> (336.39). Pink acicular crystals, mp 178~180°C. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 34.



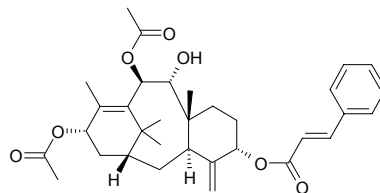
#### 4636 Dantaxusin A

5α-Cinnamoyloxy-2α,7β,13α-triacetoxy-2(3→20)abeo-taxa-4(20),11-diene e-9,10-dione C<sub>35</sub>H<sub>40</sub>O<sub>10</sub> (620.7). Colorless amorphous powder, mp 114~116°C, [α]<sub>D</sub><sup>27</sup> = +12° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.



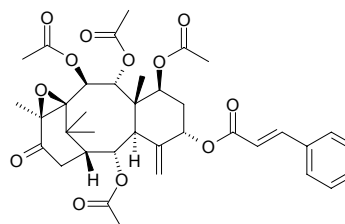
#### 4637 Dantaxusin B

5α-Cinnamoyloxy-9α-hydroxy-10β,13α-diacetoxytaxa-4(20),11-diene C<sub>33</sub>H<sub>42</sub>O<sub>7</sub> (550.7). Colorless amorphous powder, mp 245~246°C, [α]<sub>D</sub><sup>27</sup> = -8° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.



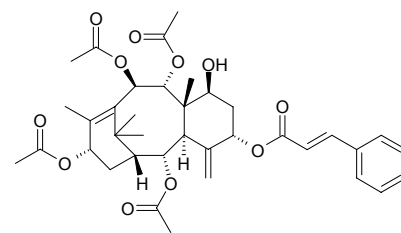
#### 4638 Dantaxusin C

C<sub>37</sub>H<sub>44</sub>O<sub>12</sub> (680.76). Colorless amorphous powder, mp 122~123°C, [α]<sub>D</sub><sup>24</sup> = +1.25° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 4611.



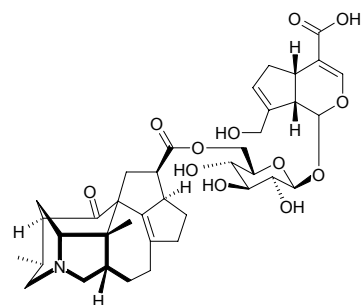
#### 4639 Dantaxusin D

C<sub>37</sub>H<sub>46</sub>O<sub>11</sub> (666.77). Colorless amorphous powder, mp 111~112 °C, [α]<sub>D</sub><sup>24</sup> = +6.88° (c = 0.33, MeOH). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 4611.

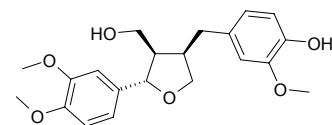


**4640 Daphcalycinosidine C**

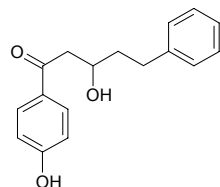
$C_{38}H_{49}NO_{12}$  (711.81). Colorless amorphous solid,  $[\alpha]_D^{22} = -15^\circ$  ( $c = 0.6$ , MeOH). Source: NIU ER FENG ZI *Daphniphyllum calycinum* (fruit: yield = 0.00042%). Ref: 4754.

**4641 Daphneligin**

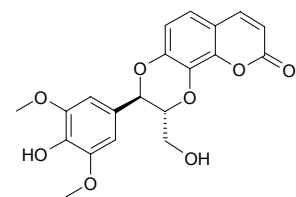
$C_{21}H_{26}O_6$  (374.44). Amorphous powder, mp 136~138°C,  $[\alpha]_D = +11.5^\circ$  ( $c = 0.10$ ,  $CHCl_3$ ) Source: YOU RUI XIANG *Daphne oleoides*. Ref: 1883.

**4642 Daphneolone**

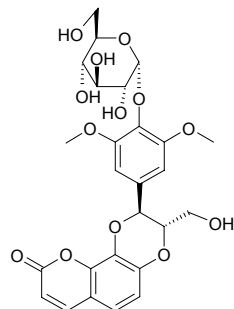
[54835-64-2]  $C_{17}H_{18}O_3$  (270.33). Source: RUI XIANG GEN *Daphne odora*. Ref: 6.

**4643 Daphneticin**

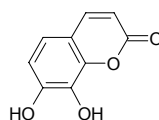
[83327-22-4]  $C_{20}H_{18}O_8$  (386.36). Pharm: Cytotoxic ( $W_{256}$ ). Source: SHAN GAN RUI XIANG *Daphne tangutica*, AO YE RUI XIANG *Daphne retusa*. Ref: 658.

**4644 Daphneticin-4''-O- $\alpha$ -D-glucopyranoside**

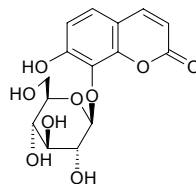
$C_{26}H_{28}O_{13}$  (548.51). mp 254~255°C,  $[\alpha]_D = +23.5^\circ$  ( $c = 0.10$ , DMSO). Source: YOU RUI XIANG *Daphne oleoides*. Ref: 2279.

**4645 Daphnetin**

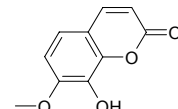
7,8-Dihydroxycoumarin [486-35-1]  $C_9H_6O_4$  (178.15). mp 257~258°C; 263~264°C. Pharm: Analgesic; antibacterial (*Staphylococcus aureus*, *Bacillus coli*, *Shigella flexneri* and *Bacillus pyocyaneus*); anti-inflammatory; anti-ischemia, myocardial; immunomodulator (inhibits immune response of specific cells and that of body fluid, but enhances phagocytotic function of enterocelia  $M_{phi}$  macrophage); improves myocardium metabolism and promotes restoration of myocardial function; increases coronary flow; reduces consumption of oxygen in myocardium; sedative;  $LD_{50}$  (mus, ip) = 429mg/kg, (mus, iv) = 375mg/kg, (mus, orl) = 5.37g/kg. Source: HUI HUI DOU *Cicer arietinum*, LANG DU *Stellera chamaejasme*, QIAN JIN ZI *Euphorbia lathyris*, RUI XIANG HUA *Daphne odora*. Ref: 4, 6, 556, 658, 5501, 5507.

**4646 Daphnetin-8-glucoside**

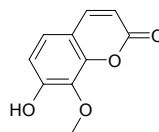
[20853-56-9]  $C_{15}H_{16}O_9$  (340.29). mp 223~224°C. Source: RUI XIANG HUA *Daphne odora*. Ref: 6.

**4647 Daphnetin-7-methyl ether**

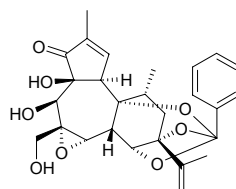
[19492-03-6]  $C_{10}H_8O_4$  (192.17). mp 175.5°C. Source: BA XIAN HUA *Hydrangea macrophylla*. Ref: 6.

**4648 Daphnetin-8-methyl ether**

Hydrangetin [485-90-5]  $C_{10}H_8O_4$  (192.17). Needles ( $C_6H_6$ ), mp 152°C, mp 157~157.5°C, mp 185°C. Pharm: Cytotoxic inactive (*in vitro*, HONE-1 and NUGC cancer cell lines, no significant activity)<sup>[3069]</sup>. Source: BA XIAN HUA *Hydrangea macrophylla*, QING HAO *Artemisia apiacea* [Syn. *Artemisia carvifolia*; *Artemisia caruifolia*], QUAN YUAN YE HUA *Jiao Zanthoxylum integrifolium*, ZHONG GUO XIU QIU *Hydrangea chinensis* (root)<sup>[3069]</sup>. Ref: 6, 2176, 3069.

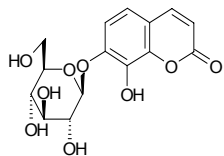
**4649 Daphnetoxin**

[28164-88-7]  $C_{27}H_{30}O_8$  (482.54). Pharm:  $LD_{50}$  (mus, orl) = 0.25mg/kg. Source: OU YA RUI XIANG *Daphne mezereum*. Ref: 658.

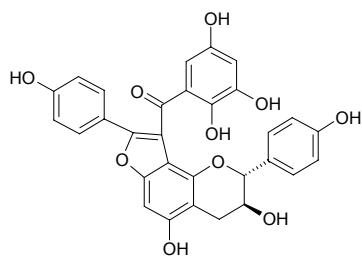


**4650 Daphnin**

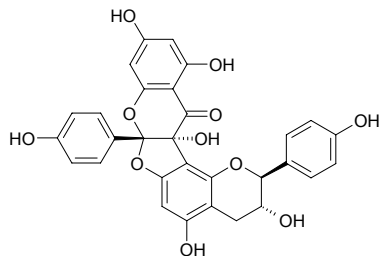
Daphnetin-7-glucoside [486-55-5]  $C_{15}H_{16}O_9$  (340.29). mp 215°C (dec).  
Source: RUI XIANG HUA *Daphne odora*, SU MI *Setaria italica*. Ref: 6.

**4651 Daphnodorin B**

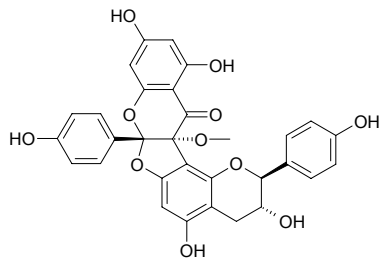
[95733-02-1]  $C_{30}H_{22}O_{10}$  (542.50). Source: LIAO GE WANG GEN *Wikstroemia indica*, RUI XIANG GEN *Daphne odora*. Ref: 2268, 1521.

**4652 Daphnodorin G**

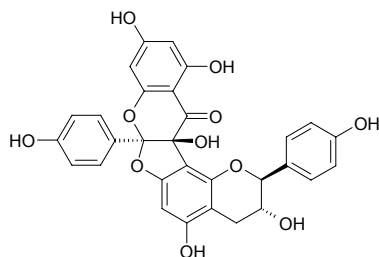
$C_{30}H_{22}O_{11}$  (558.50). Source: YUAN HUA GEN *Daphne genkwa*. Ref: 4868.

**4653 Daphnodorin G-3''-methyl ether**

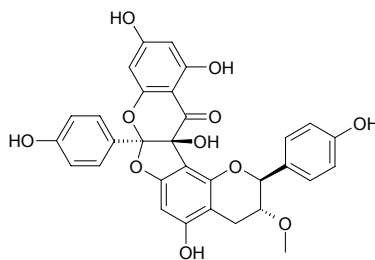
$C_{31}H_{24}O_{11}$  (572.33). Yellow amorphous powder. Source: YUAN HUA GEN *Daphne genkwa*. Ref: 4868.

**4654 Daphnodorin H**

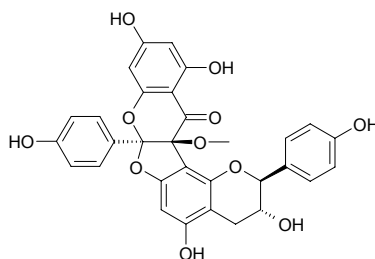
$C_{30}H_{22}O_{11}$  (558.50). Source: YUAN HUA GEN *Daphne genkwa*. Ref: 4868.

**4655 Daphnodorin H 3-methyl ether**

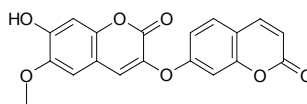
$C_{31}H_{24}O_{11}$  (572.53). Yellow amorphous powder. Source: YUAN HUA GEN *Daphne genkwa*. Ref: 4868.

**4656 Daphnodorin H 3''-methyl ether**

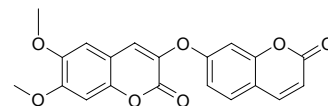
$C_{31}H_{24}O_{11}$  (572.53). Pale yellowish powder. Source: YUAN HUA GEN *Daphne genkwa*. Ref: 4868.

**4657 Daphnoretin**

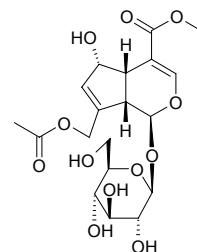
[2034-69-7]  $C_{19}H_{12}O_7$  (352.30). Yellow flossy, tiny acicular crystals (ethanol) or yellow short, thick acicular crystals (acetone-pyridine), mp 250–252°C, 244–247°C; yellow acicular crystals (tetrahydrofuran-methanol). Pharm: Antineoplastic. Source: LIAO GE WANG GEN *Wikstroemia indica*, JING YA MA YE RUI XIANG *Daphne gnidium*. Ref: 661.

**4658 Daphnoretin methyl ether**

7-Methoxydaphnoretin  $C_{20}H_{14}O_7$  (366.33). Fine acicular crystals, mp 238–240°C, soluble in methanol, ethanol, and insoluble in chloroform, ether, and acetone. Source: LANG DU *Stellera chamaejasme*. Ref: 488.

**4659 Daphylloside**

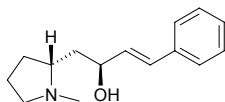
[14260-99-2]  $C_{19}H_{26}O_{12}$  (446.41). Source: JI SHI TENG *Paederia scandens*, JIAO RANG MU *Daphniphyllum macropodum*, XIE JI CU YE MU *Lasianthus wallichii* (leaf). Ref: 1521, 2561, 4238.



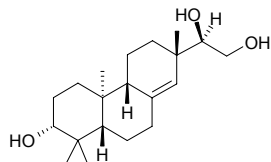


**4660 Darlinine**

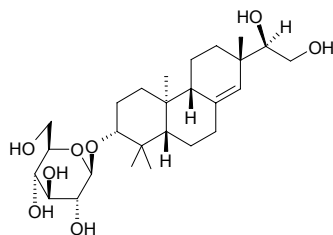
[73069-56-4]  $C_{15}H_{21}NO$  (231.34). Straw-coloured crystals (EtOH), mp 59–61°C,  $[\alpha]_D^{19} = +75^\circ$  (CHCl<sub>3</sub>). Source: *Darlingia darlingiana*. Ref: 1521.

**4661 Darutigenol**

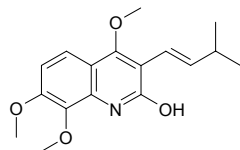
$C_{20}H_{34}O_3$  (322.49). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts). Ref: 4438.

**4662 Darutoside**

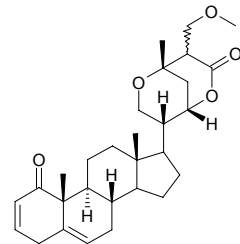
Darutin  $C_{26}H_{44}O_8$  (484.64). Source: XI XIAN *Siegesbeckia orientalis* (aerial parts). Ref: 4438.

**4663 Dasycarpamine**

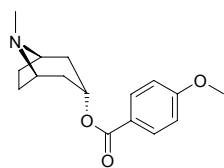
$C_{17}H_{21}NO_4$  (303.36). mp 149°C. Source: BAI XIAN PI *Dictamnus dasycarpus*. Ref: 6.

**4664 Datumetelin**

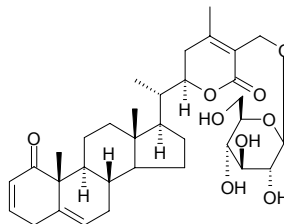
[117259-11-7]  $C_{29}H_{40}O_5$  (468.64). Source: MAN TUO LUO YE *Datura metel*. Ref: 2.

**4665 Datumetine**

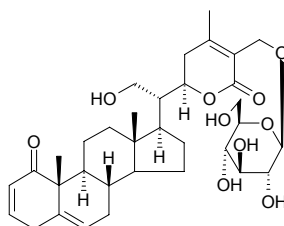
[67078-20-0]  $C_{16}H_{21}NO_3$  (275.35). Source: MAN TUO LUO YE *Datura metel*. Ref: 2.

**4666 Daturametelin A**

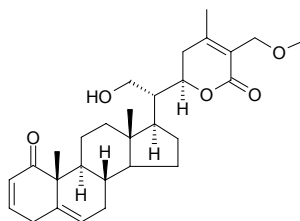
$C_{34}H_{48}O_9$  (600.76). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4667 Daturametelin B**

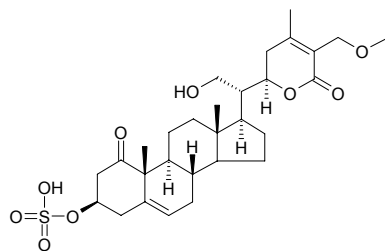
$C_{34}H_{48}O_{10}$  (616.76). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4668 Daturametelin C**

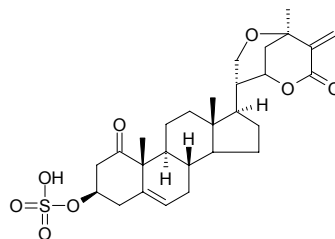
[123297-25-6]  $C_{29}H_{40}O_5$  (468.64). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4669 Daturametelin E**

$C_{29}H_{42}O_9S$  (566.72). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

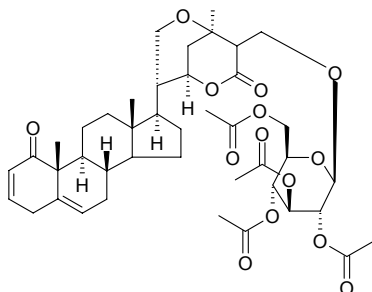
**4670 Daturametelin F**

$C_{28}H_{38}O_8S$  (534.67). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

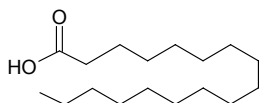


**4671 Daturametelin G-AC**

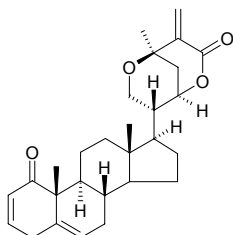
$C_{42}H_{56}O_{14}$  (784.91). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4672 Daturic acid**

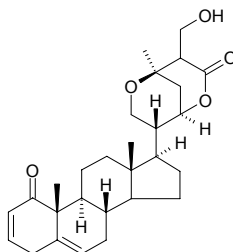
Margaric acid [506-12-7]  $C_{17}H_{34}O_2$  (270.46). mp 60~61°C. Source: DANG SHEN *Codonopsis pilosula*, LU HUI *Aloe vera* [Syn. *Aloe barbadensis*], GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], XI YANG SHEN *Panax quinquefolium*, SHU MI *Panicum miliaceum*. Ref: 2, 6.

**4673 Daturilin**

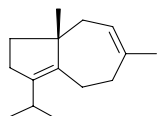
Withametelin [113430-43-6]  $C_{28}H_{36}O_4$  (436.60). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660, 1521.

**4674 Daturilinol**

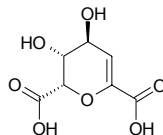
[113706-20-0]  $C_{28}H_{38}O_5$  (454.61). Source: MAN TUO LUO YE *Datura metel*. Ref: 2, 660.

**4675 Daucene**

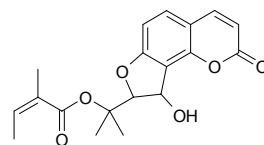
4,8-Daucadiene [16661-00-0]  $C_{15}H_{24}$  (204.36). bp 96°C/4mmHg. Source: NAN HE SHI *Daucus carota*. Ref: 6, 660.

**4676 Daucic acid**

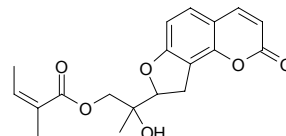
[34098-52-7]  $C_7H_8O_7$  (204.14). Source: HE SHI FENG *Daucus carota*. Ref: 6.

**4677 Daucoidin A**

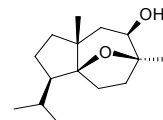
$C_{19}H_{20}O_6$  (344.37). Yellowish glasses,  $[\alpha]_D^{20} = +46^\circ$  (c = 0.30, MeOH). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**4678 Daucoidin B**

$C_{19}H_{20}O_6$  (344.37). Colorless massive crystals, mp 140~141°C,  $[\alpha]_D^{20} = +48.2^\circ$  (c = 0.15,  $CHCl_3$ ). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

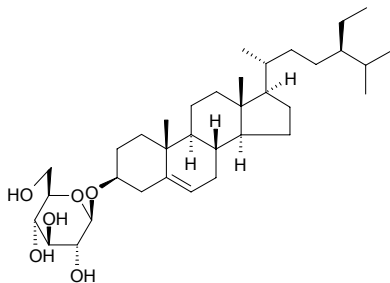
**4679 Daucol**

[887-08-1]  $C_{15}H_{26}O_2$  (238.37). mp 113~115°C, bp 124~132°C/2mmHg. Source: HU LUO BO ZI *Daucus carota* var. *sativa*, NAN HE SHI *Daucus carota*, HE SHI FENG *Daucus carota*. Ref: 6, 660.

**4680 Daucosterol**

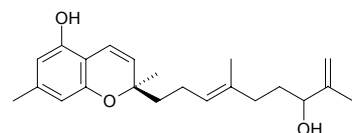
$\beta$ -Daucosterol [474-58-8]  $C_{35}H_{60}O_6$  (576.86). White powder, mp 295°C. Pharm: Platelet aggregation inhibitor (2~5mg/mL collagen-induced,  $IC_{50} = (114 \pm 3) \mu\text{mol/L}$ , control ASA,  $IC_{50} = (420 \pm 3) \mu\text{mol/L}$ ; 1~4  $\mu\text{mol/L}$  epinephrine-induced with 0.8~1.0mg/mL collagen,  $IC_{50} = (53.2 \pm 2.3) \mu\text{mol/L}$ , ASA,  $IC_{50} = (53.0 \pm 4.5) \mu\text{mol/L}$ ; 10~40  $\mu\text{mol/L}$  Sodium arachidonate-induced with 0.8~1.0mg/mL collagen,  $IC_{50} = (66.5 \pm 4.0) \mu\text{mol/L}$ , ASA,  $IC_{50} = (66.0 \pm 2.1) \mu\text{mol/L}$ ; 1~5  $\mu\text{mol/L}$   $PGH_2/TXA_2$  receptor agonist U46619-induced with 0.8~1.0mg/mL collagen,  $IC_{50} = (56.1 \pm 4.3) \mu\text{mol/L}$ , ASA,  $IC_{50} = (340 \pm 12) \mu\text{mol/L}$ )<sup>[4994]</sup>; cytotoxic ( $P_{388}$ , marginal activity); cytotoxic inactive (*in vitro*, LNCaP,  $IC_{50} > 100 \mu\text{mol/L}$ )<sup>[4607]</sup>. Source: BAI MU TONG GEN *Akebia trifoliata* var. *australis*, BAI TOU WENG *Pulsatilla chinensis*, BAN XIA *Pinellia ternata*, BEI MA DOU LING GEN *Aristolochia contorta*, BU GU ZHI *Psoralea corylifolia*, CAO CONG RONG *Boschniakia rossica*, CHI SHAO *Paeonia lactiflora* wild, CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*], CHUAN XU DUAN *Dipsacus asperoides*, CI WU JIA *Acanthopanax senticosus* [Syn. *Eleutherococcus senticosus*], DAN SHEN *Salvia*

*multiorrhiza*, DIAN NAN HONG HOU KE *Calophyllum polyanthum* (seed: yield = 0.0027%dw)<sup>[4767]</sup>, DONG BEI CI REN SHEN *Oplopanax elatus*, FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], FANG XIANG JIANG *Zingiber aromaticum* (rhizome), GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], GE GEN *Pueraria lobata* [Syn. *Pueraria thunbergiana*; *Pueraria pseudohirsuta*], HAI JIN BI XIE *Dioscorea spongiosa* (rhizome: yield = 0.00012%)<sup>[4692]</sup>, HUA DONG LAN CI TOU *Echinops grijsii*, HUANG HUA BAI JIANG *Patrinia scabiosaefolia*, HUO XIANG *Agastache rugosus*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0385%dw)<sup>[4799]</sup>, JIN QUE GEN *Caragana sinica*, JU YUAN *Citrus medica*, LANG DANG ZI *Hyoscyamus niger* (seed: yield = 0.0004%dw)<sup>[4607]</sup>, LIU QIU SHE GEN CAO *Ophiorrhiza liukuensis* (whole herb), MA TI YE *Caltha palustris*, MAO LIAN HAO *Artemisia vestita*, MU TONG *Akebia quinata*, MU TONG GEN *Akebia quinata*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], ROU CONG RONG *Cistanche deserticola*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*], SAN YE MU TONG GEN *Akebia trifoliata*, SHAN FAN GEN *Symplocos caudata*, SHENG DI HONG JING TIAN *Rhodiola sacra*, SHI LIU ZHONG ZI *Punica granatum* (seed: yield = 0.0051%)<sup>[4792]</sup>, SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial parts: yield = 0.00058%dw)<sup>[4665]</sup>, SUAN ZAO REN *Ziziphus jujuba* var. *spinosa*, TIAN MA *Gastrodia elata*, TUN XING GUO *Pygeum topengii*, WU GENG WU JIA PI *Acanthopanax sessiliflorus* (fruit), XIA KU CAO *Prunella vulgaris*, XIAN GENG XI XIAN *Siegesbeckia orientalis* var. *pubescens* [Syn. *Siegesbeckia pubescens*], XIANG TANG SONG CAO *Thalictrum foetidum*, XIAO QIAO MU ZI JIN NIU *Ardisia arborescens* (whole herb)<sup>[4769]</sup>, XIN JIANG LAN CI TOU *Echinops ritro*, YA DAN ZI *Brucea javanica* [Syn. *Brucea sumatrana*; *Rhus javanica*], YAO YONG PU GONG YING *Taraxacum officinale*, YI ZHU QIAN MA *Urtica dioica*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*, occurs in many plants. Ref: 2, 440, 447, 450, 454, 455, 471, 474, 502, 556, 580, 582, 585, 594, 596, 614, 622, 660, 1521, 2508, 2535, 4449, 4527, 4607, 4665, 4692, 4767, 4769, 4792, 4799, 4994, 5501.



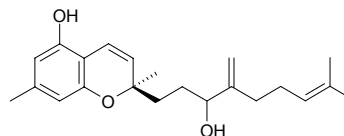
#### 4681 Daurichromene A

2*R*-(7'-Hydroxy-4',8'-dimethyl-3'E,8'-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C<sub>22</sub>H<sub>30</sub>O<sub>3</sub> (342.48). Light yellow oil, [α]<sub>D</sub><sup>26</sup> = -30.4° (c = 0.20, CH<sub>3</sub>OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)<sup>[4755]</sup>. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.00091%) Ref: 4755.



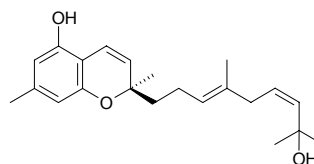
#### 4682 Daurichromene B

2*R*-(3'-Hydroxy-8'-methyl-4'-methyliden-7'-nonaenyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C<sub>22</sub>H<sub>30</sub>O<sub>3</sub> (342.48). Light yellow oil, [α]<sub>D</sub><sup>26</sup> = -27.7° (c = 0.13, CH<sub>3</sub>OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)<sup>[4755]</sup>. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.0001%) Ref: 4755.



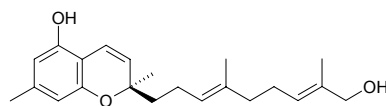
#### 4683 Daurichromene C

2*R*-(8'-Hydroxy-4',8'-dimethyl-3'E,6'Z-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C<sub>22</sub>H<sub>30</sub>O<sub>3</sub> (342.48). Light yellow oil, [α]<sub>D</sub><sup>26</sup> = -32.0° (c = 0.10, CH<sub>3</sub>OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)<sup>[4755]</sup>. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.0002%) Ref: 4755.



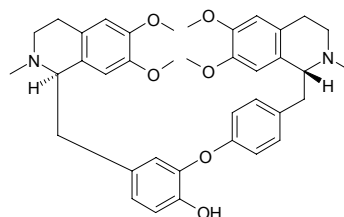
#### 4684 Daurichromene D

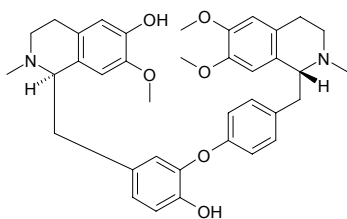
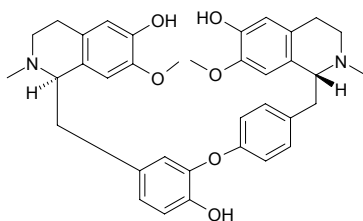
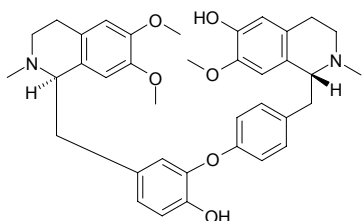
2*R*-(9'-Hydroxy-4',8'-dimethyl-3'E,7'E-nonadienyl)-5-hydroxy-2,7-dimethyl-2*H*-chromene C<sub>22</sub>H<sub>30</sub>O<sub>3</sub> (342.48). Light yellow oil, [α]<sub>D</sub><sup>26</sup> = -26.0° (c = 0.10, CH<sub>3</sub>OH). **Pharm:** Antihistamine (inhibits histamine release, rat peritoneal mast cells, compound 48/80-induced)<sup>[4755]</sup>. **Source:** MAN SHAN HONG *Rhododendron dauricum* (twig and leaf: yield = 0.00017%) Ref: 4755.



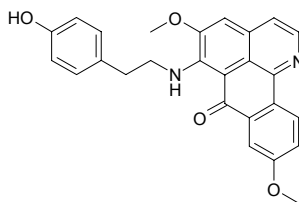
#### 4685 Dauricine

[524-17-4] C<sub>38</sub>H<sub>44</sub>N<sub>2</sub>O<sub>6</sub> (624.78). mp 115°C. **Pharm:** Analgesic; antiarrhythmic; anti-inflammatory; antihypertensive; platelet aggregation inhibitor (caused by ADP, adrenalin, collagen and arachidonic acid, *in vitro* and *in vivo*); inhibits small intestinal contraction (rbt, *in vitro*) and reduces alvine tension (*in vivo*); antihypercholesterolemic (reduces the level of cholesterol in serum); LD (cat, iv) = 30mg/kg; LD<sub>50</sub> (mus, ip) = 6mg/kg. **Source:** BIAN FU GE GEN *Menispermum dauricum*, MEI GUO BIAN FU GE *Menispermum canadense*. Ref: 4, 6, 658, 5501.

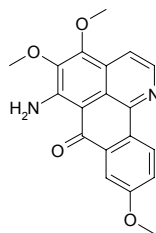
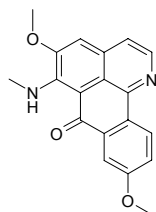
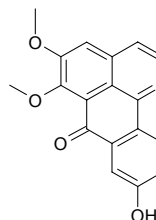


**4686 Dauricinoline**[30984-80-6] C<sub>37</sub>H<sub>42</sub>N<sub>2</sub>O<sub>6</sub> (610.76). Source: BIAN FU GE GEN*Menispermum dauricum*. Ref: 6.**4687 Dauricoline**[29550-42-3] C<sub>36</sub>H<sub>40</sub>N<sub>2</sub>O<sub>6</sub> (596.73). Source: BIAN FU GE GEN*Menispermum dauricum*. Ref: 6.**4688 Daurinoline**[2831-75-6] C<sub>37</sub>H<sub>42</sub>N<sub>2</sub>O<sub>6</sub> (610.76). Source: BIAN FU GE GEN*Menispermum dauricum*. Ref: 6.**4689 Daurioxoisoporphine A**

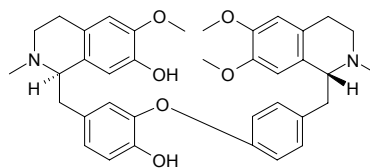
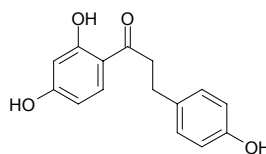
4-Demethoxytyraminoporphine C<sub>26</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub> (426.48). Yellow crystals (CHCl<sub>3</sub>), mp 234~235°C. Pharm: Cytotoxic (*in vitro*, A549, IC<sub>50</sub> = 8.8 μmol/L, HL-60, IC<sub>50</sub> > 50 μmol/L, MCF7, IC<sub>50</sub> = 3 μmol/L, P<sub>388</sub>, IC<sub>50</sub> = 30.5 μmol/L; control VP-16: A549, IC<sub>50</sub> = 0.5 μmol/L, HL-60, IC<sub>50</sub> = 5.4 μmol/L, MCF7, IC<sub>50</sub> = 12.33 μmol/L, P<sub>388</sub>, IC<sub>50</sub> = 0.1 μmol/L). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.

**4690 Daurioxoisoporphine B**

6-Amino-4,5,9-trimethoxyoxoisoporphine C<sub>19</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub> (336.35). Yellow amorphous powder. Pharm: Cytotoxic (*in vitro*, A549, IC<sub>50</sub> > 50 μmol/L, HL-60, IC<sub>50</sub> > 50 μmol/L, MCF7, IC<sub>50</sub> = 6.2 μmol/L, P<sub>388</sub>, IC<sub>50</sub> = 9.6 μmol/L; control VP-16: A549, IC<sub>50</sub> = 0.5 μmol/L, HL-60, IC<sub>50</sub> = 5.4 μmol/L, MCF7, IC<sub>50</sub> = 12.33 μmol/L, P<sub>388</sub>, IC<sub>50</sub> = 0.1 μmol/L). Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.

**4691 Daurioxoisoporphine C**6-Methylamino-5,9-dimethoxyoxoisoporphine C<sub>19</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub> (320.35).Yellow amorphous powder. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.**4692 Daurioxoisoporphine D**5,6-Dimethoxyl-9-hydroxyoxoisoporphine C<sub>18</sub>H<sub>13</sub>NO<sub>4</sub> (307.31). Yellowamorphous powder. Source: BIAN FU GE GEN *Menispermum dauricum*. Ref: 3071.**4693 Daurisoline**

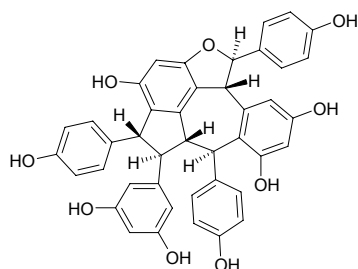
[70553-76-3] C<sub>37</sub>H<sub>42</sub>N<sub>2</sub>O<sub>6</sub> (610.76). Cream powder (cyclohexane), mp 96~102°C, [α]<sub>D</sub><sup>20</sup> = -129° (c = 0.65, methanol). Pharm: Muscle relaxant; LD<sub>50</sub> (mus, iv) = (1.25±0.16)mg/kg. Source: BIAN FU GE GEN *Menispermum dauricum* (rhizome: mean content of 8 origins = 0.594%<sup>[5508]</sup>) Ref: 661, 5501, 5508.

**4694 Davidigenin**C<sub>15</sub>H<sub>14</sub>O<sub>4</sub> (258.28). Source: BO TE LAN DA JI *Euphorbia portlandica* (whole herb). Ref: 5019.

**4695 Davidiol A**

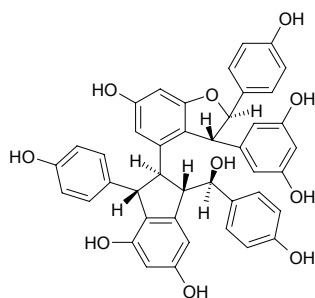
$C_{42}H_{32}O_9$  (680.72). Colorless powder,  $[\alpha]_D^{29} = -272^\circ$  ( $c = 0.18$ , MeOH).

Source: BAI CI HUA GEN *Sophora viciifolia*. Ref: 3935.

**4696 Davidiol B**

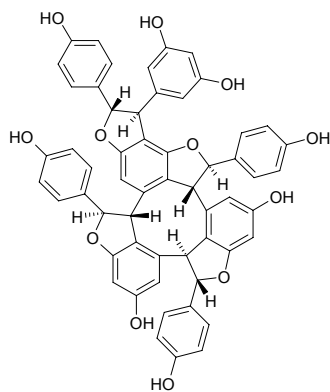
$C_{42}H_{34}O_{10}$  (698.73). Brown solid,  $[\alpha]_D^{29} = -82^\circ$  ( $c = 0.04$ , MeOH). Source:

BAI CI HUA GEN *Sophora viciifolia*. Ref: 3935.

**4697 Davidiol C**

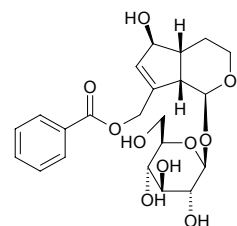
$C_{56}H_{40}O_{12}$  (904.94). Brown powder,  $[\alpha]_D^{29} = -124^\circ$  ( $c = 0.11$ , MeOH).

Source: BAI CI HUA GEN *Sophora viciifolia*. Ref: 3935.

**4698 Davisioside**

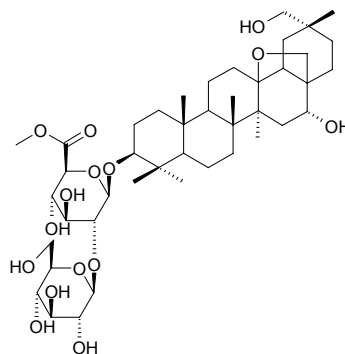
$C_{22}H_{28}O_{10}$  (452.46). White amorphous powder,  $[\alpha]_D = -69^\circ$  ( $c = 0.48$ ,

MeOH). Source: *Globularia davisiana* (aerial parts). Ref: 4194.

**4699 Davuricoside D**

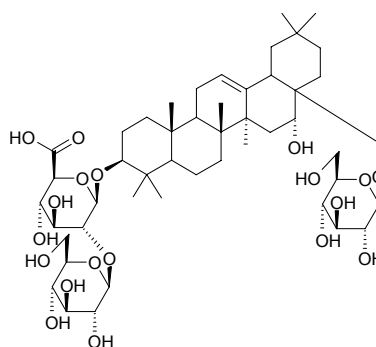
$3\beta,16\alpha,29$ -Trihydroxy-13,28-epoxy-oleanane-3-*O*- $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)-(6-methyl ester)- $\beta$ -D-glucuronopyranoside  $C_{43}H_{70}O_{15}$  (827.03).

White amorphous powder, mp 184~186°C (MeOH),  $[\alpha]_D^{20} = -16.00^\circ$  ( $c = 0.01$ , pyridine). Source: HUANG LIAN HUA *Lysimachia davurica* (whole herb). Ref: 4834.

**4700 Davuricoside J**

$3\beta,16\alpha,28$ -Trihydroxy-olean-12-en-3-*O*-[ $\beta$ -D-glucopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucuronopyranosyl]-28-*O*- $\beta$ -D-glucuronopyranoside  $C_{48}H_{78}O_{19}$  (959.15).

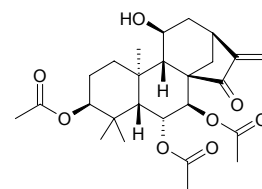
White amorphous powder, mp 229~232°C (MeOH:H<sub>2</sub>O = 9:1),  $[\alpha]_D^{20} = -20.79^\circ$  ( $c = 0.04$ , pyridine). Source: HUANG LIAN HUA *Lysimachia davurica* (whole herb). Ref: 4834.

**4701 Dawoensin A**

$C_{26}H_{36}O_8$  (476.57). mp 240~242°C,  $[\alpha]_D^{26} = -34.3^\circ$  ( $c = 1.40$ , MeOH);  $[\alpha]_D^{25.6} = -37.8^\circ$  ( $c = 0.332$ , MeOH). Pharm: Cytotoxic (*in vitro*, BGC823

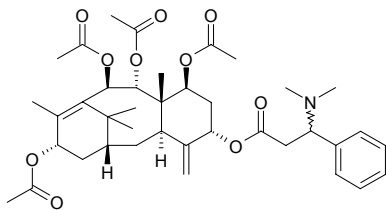
hmn tumor cells,  $IC_{50} = 3.54\mu\text{g/mL}$ , control VCR,  $IC_{50} = 0.066\mu\text{g/mL}$ )<sup>[4760]</sup>; cytotoxic (hmn tumor K562 cells,  $IC_{50} = 2.0\mu\text{g/mL}$ ,

control *cis*-Platin  $IC_{50} = 1.1\mu\text{g/mL}$ )<sup>[4955]</sup>. Source: BAO YE XIANG CHA CAI *Isodon melissoides* (aerial parts: yield = 0.00031%dw), DAO FU XIANG CHA CAI *Isodon dawoensis*, DONG LING CAO *Rabdosia rubescens* (leaf). Ref: 4067, 4299, 4760, 4955.

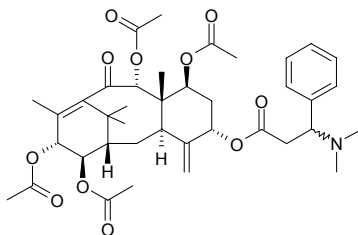


**4702 2'-Deacetoxyaustrospicatine**

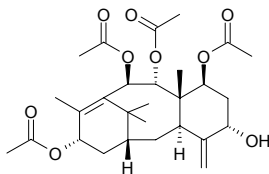
[119777-80-9] C<sub>39</sub>H<sub>53</sub>NO<sub>11</sub> (695.86). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4703 2'-Deacetoxyaustrotaxine**

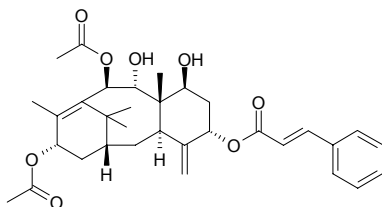
[119777-74-1] C<sub>39</sub>H<sub>51</sub>NO<sub>11</sub> (709.84). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**4704 2-Deacetoxy-5-decinnamoyl taxinine J**

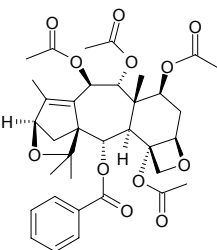
C<sub>28</sub>H<sub>40</sub>O<sub>9</sub> (520.63). White massive crystals, mp 178~180°C, [α]<sub>D</sub><sup>12</sup> = +112.93° (c = 0.058, chloroform). Source: JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 296, 662.

**4705 2-Deacetoxy-7,9-dideacetyltaxinine J**

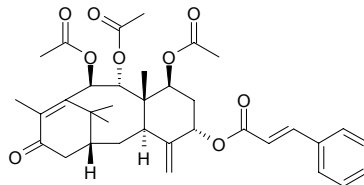
C<sub>33</sub>H<sub>42</sub>O<sub>8</sub> (566.70). Source: HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[4611]</sup>. Ref: 662, 4611.

**4706 13-Deacetoxy-13,15-epoxy-11(15→1)-abeo-13-epi-baccatin VI**

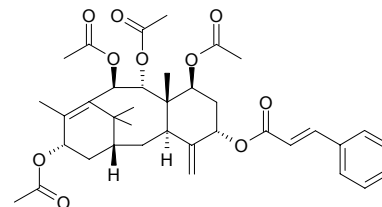
C<sub>35</sub>H<sub>42</sub>O<sub>12</sub> (654.72). [α]<sub>D</sub> = +23.9° (CHCl<sub>3</sub>), mp 150°C. Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4707 2-Deacetoxytaxinine B**

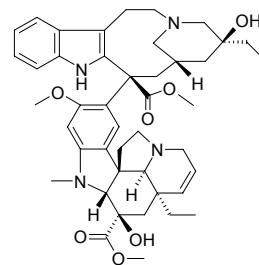
C<sub>35</sub>H<sub>42</sub>O<sub>9</sub> (606.72). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4708 2-Deacetoxytaxinine J**

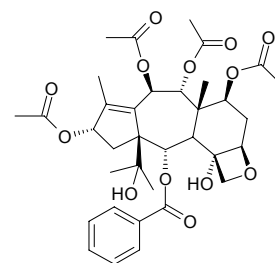
[119347-14-7] C<sub>37</sub>H<sub>46</sub>O<sub>10</sub> (650.77). Colorless crystals, mp 171~172°C (ethanol), [α]<sub>D</sub><sup>14</sup> = +50° (c = 1.2, acetone). Pharm: Cytotoxic (P<sub>388</sub> *in vitro*, IC<sub>50</sub> = 15.2 μg/mL, L<sub>1210</sub> *in vitro*, IC<sub>50</sub> = 4.9 μg/mL, 10 μg/mL InRt = 79.5%, KB *in vitro*, 10 μg/mL InRt = 27.6%). Source: MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)<sup>[3079, 4611]</sup>, ZI SHAN *Taxus cuspidata*. Ref: 662, 900, 3079, 4611.

**4709 Deacetoxyvinblastine**

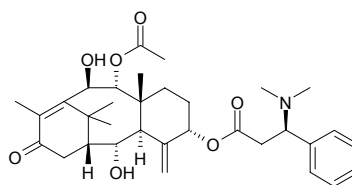
C<sub>44</sub>H<sub>56</sub>N<sub>4</sub>O<sub>7</sub> (752.96). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. Ref: 2.

**4710 4-Deacetyl-11(15→1)-abeo-baccatin VI**

C<sub>35</sub>H<sub>44</sub>O<sub>13</sub> (672.73). mp 222°C, [α]<sub>D</sub> = -73.1° (CHCl<sub>3</sub>). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

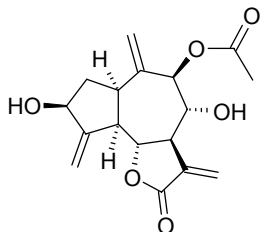
**4711 2-Deacetyl-9-acetoxytaxinine B**

C<sub>33</sub>H<sub>45</sub>NO<sub>7</sub> (567.73). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

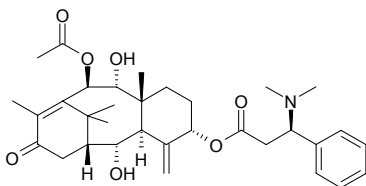


**4712 3-O-Deacetyl-9-O-acetylsalograviolide A**

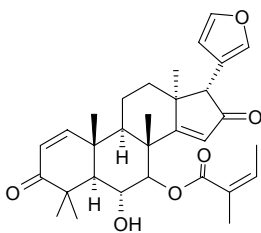
$C_{17}H_{20}O_6$  (320.35). Colorless solid,  $[\alpha]_D^{22} = +29.80^\circ$  ( $c = 0.0436$ , MeOH). **Pharm:** Antifungal (*Aspergillus niger*, MIC = 6.25  $\mu\text{g/mL}$ ; *Aspergillus ochraceus*, MIC = 3.13  $\mu\text{g/mL}$ ; *Penicillium ochrocloron*, MIC = 25  $\mu\text{g/mL}$ ; *Cladosporium cladosporioides*, MIC = 3.13  $\mu\text{g/mL}$ ; *Fusarium tricinctum*, MIC = 12.5  $\mu\text{g/mL}$ ; *Phomopsis helianthi*, MIC = 1.56  $\mu\text{g/mL}$ ; *Trichoderma viride*, inactive). **Source:** NI GU LA SHI CHE JU *Centaurea nicolai*. **Ref:** 2361.

**4713 2-Deacetyl-10-acetyl taxine B**

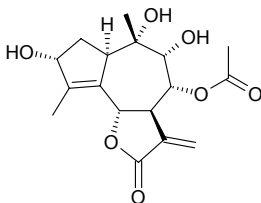
$C_{33}H_{45}NO_7$  (567.73). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**4714 7-Deacetyl-7-angeloyl-6 $\alpha$ -hydroxyazadiradione**

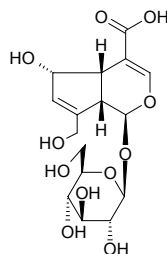
$C_{31}H_{38}O_6$  (506.64). Pale yellow solid, mp 91~94°C,  $[\alpha]_D = +69^\circ$  ( $c = 0.658$ ,  $\text{CHCl}_3$ ). **Source:** *Quivisia papinae* (seed). **Ref:** 3759.

**4715 9-O-Deacetyl anthemolide D**

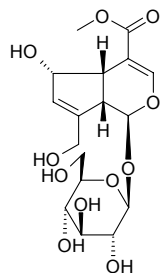
$C_{17}H_{22}O_7$  (338.36). Pale yellow oil. **Source:** *Anthemis carpatica* (aerial parts). **Ref:** 3974.

**4716 Deacetyl asperulosidic acid**

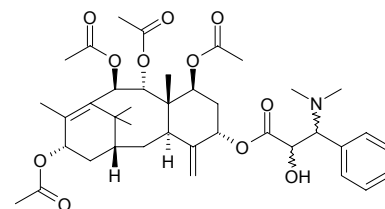
Citroside A [14259-55-3]  $C_{16}H_{22}O_{11}$  (390.35). Colorless acicular crystals, mp 146°C,  $[\alpha]_D^{34} = +11.1^\circ$  ( $c = 0.36$ , water). **Pharm:** TNF- $\alpha$  release inhibitor (cultured mouse peritoneal macrophages,  $IC_{50} = 1 \mu\text{g/mL}$ )<sup>[1605]</sup>; Laxative. **Source:** CHANG WEI CU YE MU *Lasianthus acuminatissimus* (root: yield = 0.0046% dw)<sup>[1605]</sup>, HAI BA JI *Morinda citrifolia* (fruit), JIAO RANG MU *Daphniphyllum macropodum*, XIE JI CU YE MU *Lasianthus wallichii* (leaf), ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 661, 1605, 4238, 4542.

**4717 Deacetyl asperulosidic acid methyl ester**

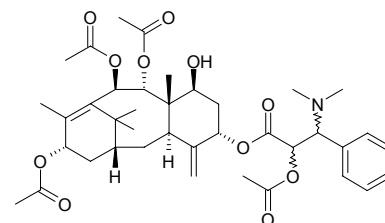
Methyldeacetylasperulosidate  $C_{17}H_{24}O_{11}$  (404.37). **Pharm:** Laxative (mus,  $ED_{50} = 0.53 \text{ g/kg}$ ). **Source:** SHUI ZHI *Gardenia jasminoides* var. *grandiflora*, ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. **Ref:** 2, 6, 626, 658.

**4718 2'-Deacetylaustrospicatin**

[119777-78-5]  $C_{39}H_{53}NO_{11}$  (711.86). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

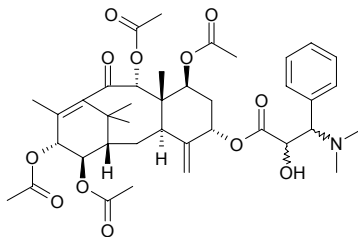
**4719 7-Deacetylaustrospicatin**

[119777-79-6]  $C_{39}H_{53}NO_{11}$  (711.86). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

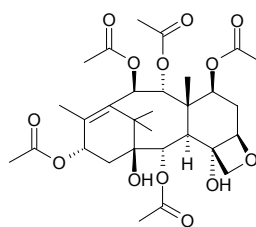


**4720 2'-Deacetylaustrotaxine**

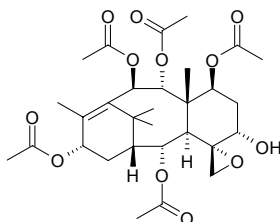
[119777-74-1]  $C_{39}H_{51}NO_{12}$  (725.84). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

**4724 4-Deacetylbaaccatin IV**

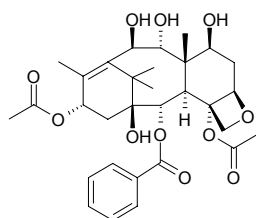
$C_{30}H_{42}O_{13}$  (610.66). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4721 5α-Deacetylbaaccatin I**

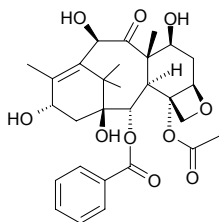
[30244-36-1]  $C_{30}H_{42}O_{12}$  (594.66). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4725 7,9,10-Deacetylbaaccatin VI**

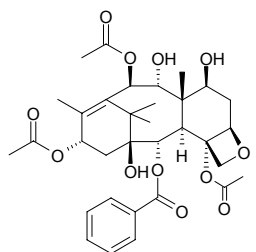
$C_{31}H_{40}O_{11}$  (588.66). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis*. Ref: 662.

**4722 10-Deacetylbaaccatin III**

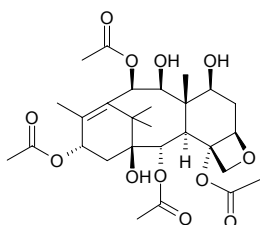
$C_{29}H_{36}O_{10}$  (544.62). Pharm: Cytotoxic (*in vitro*, 30 μg/mL: A498, InRt = 27.0%; NCI-H226, InRt = 5.7%; A549, InRt = 12.2%; PC3, InRt = 1.6%; control Taxol, 30 μg/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)<sup>[4800]</sup>. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, JIANG GUO ZI SHAN *Taxus baccata*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.0082% dw<sup>[4666]</sup>), YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 316, 563, 662, 4666, 4800.

**4726 7,9-Deacetylbaaccatin VI**

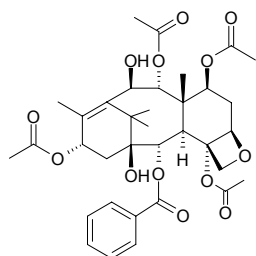
9-Dihydro-13-acetylbaaccatin III  $C_{33}H_{42}O_{12}$  (630.70). mp 221°C. Pharm: NO production inhibitor (IC<sub>50</sub> = 78.8 μmol/L, control *L*-NMMA, IC<sub>50</sub> = 28.5 μmol/L)<sup>[5407]</sup>. Source: JIA NA DA HONG DOU SHAN *Taxus Canadensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). Ref: 662, 5407.

**4723 7,9-Deacetylbaaccatin IV**

$C_{28}H_{40}O_{12}$  (568.62). Source: JIANG GUO ZI SHAN *Taxus baccata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4727 10-Deacetylbaaccatin VI**

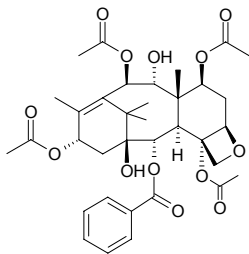
$C_{35}H_{44}O_{13}$  (672.73). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



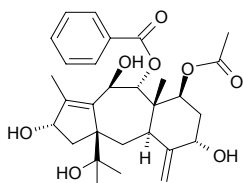


**4728 9-Deacetyl-9-benzoylbaccatin VI**

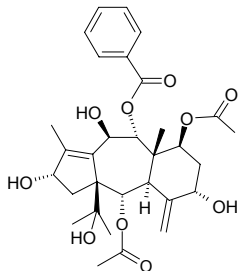
$C_{35}H_{44}O_{13}$  (672.73). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**4729 9-Deacetyl-9-benzoyl-10-debenzoylbrevifoliol**

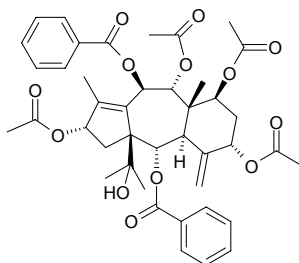
$C_{29}H_{38}O_8$  (514.62). mp 152°C,  $[\alpha]_D^{25} = +18^\circ$  (CHCl<sub>3</sub>). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4730 9-Deacetyl-9-benzoyl-10-debenzoyltaxchinin A**

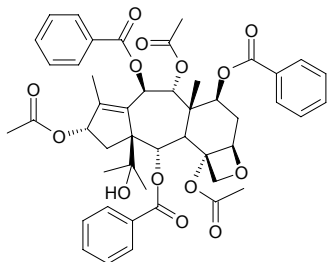
$C_{31}H_{40}O_{10}$  (572.66).  $[\alpha]_D^{25} = +19.4^\circ$  (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4731 2-Deacetyl-2α-benzoyl-5,13-diacetyltaxchinin A**

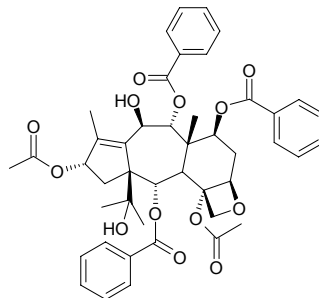
$C_{42}H_{48}O_{13}$  (760.84). mp 200–203°C,  $[\alpha]_D^{25} = -21.5^\circ$ . Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4732 7-Deacetyl-7-benzoyltaxayuntin C**

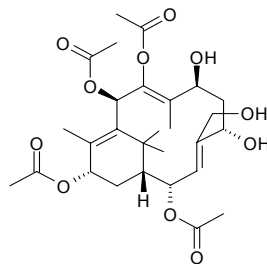
$C_{47}H_{50}O_{14}$  (838.91). mp 234–236°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4733 7-Deacetyl-7-benzoyltaxchinin I**

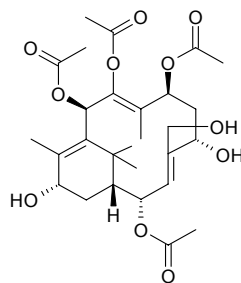
$C_{45}H_{48}O_{13}$  (796.88). mp 255°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4734 7-Deacetylcanadensene**

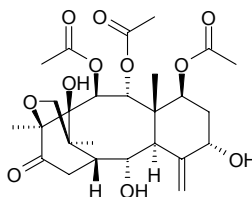
$C_{28}H_{40}O_{11}$  (552.62). White amorphous solid, mp 95–96°C,  $[\alpha]_D^{25} = +5.33^\circ$  ( $c = 0.003$ , CHCl<sub>3</sub>). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662, 1914.

**4735 13-Deacetylcanadensene**

$C_{28}H_{40}O_{11}$  (552.62). White amorphous solid, mp 98–99°C,  $[\alpha]_D^{24} = +4.52^\circ$  ( $c = 0.003$ , CHCl<sub>3</sub>). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662, 1914.

**4736 2α-Deacetyl-5α-decinnamoyltaxagifine**

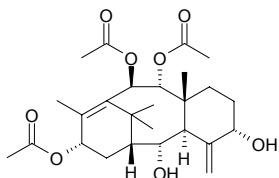
$C_{26}H_{36}O_{11}$  (524.57). Source: HONG DOU SHAN *Taxus chinensis*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)<sup>[4800]</sup>. Ref: 662, 4800.



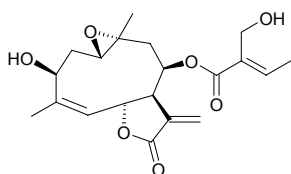
**4737 2-Deacetyldecinnamoyltaxinine E**

Deacetyldecinnamoyltaxinine E  $C_{26}H_{38}O_8$  (478.59).  $[\alpha]_D^{25} = +72^\circ$  (CHCl<sub>3</sub>).

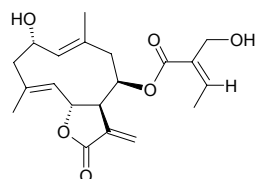
Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4738 3-Deacetylupalinin A**

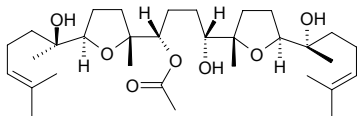
$C_{20}H_{26}O_7$  (378.43). Source: CHENG GAN SHENG MA *Eupatorium lindleyanum* (whole herb: yield = 0.0023%dw). Ref: 4762.

**4739 Deacetylupaserrin**

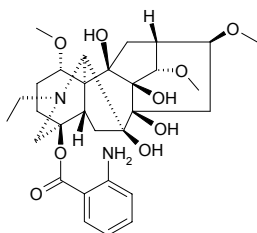
Desacetylupaserrin [38456-39-2]  $C_{20}H_{26}O_6$  (362.43).  $[\alpha]_D^{25} = +75.0^\circ$  ( $c = 0.92$ , methanol). Pharm: Antineoplastic (P<sub>388</sub>, 18mg/kg); cytotoxic (KB, ED<sub>50</sub> = 0.29μg/mL); larvicide (insect larva growth inhibitor). Source: AI XIANG RI KUI *Helianthus pumilus*, BAN JU CHI ZHUANG ZE LAN *Eupatorium semiserratum*, WEI GAN JU ZE LAN *Eupatorium mikanioides*, *Helianthus* sp. Ref: 658, 661.

**4740 14-Deacetylerylene**

$C_{32}H_{56}O_7$  (552.80). Pharm: Cytotoxic (KB cells, IC<sub>50</sub> = 0.52μg/mL)<sup>[4556]</sup>. Source: *Eurycoma* sp. Ref: 4556.

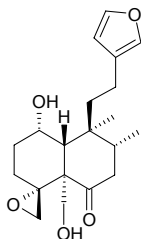
**4741 N-Deacetylfinaconitine**

[82872-81-9]  $C_{30}H_{42}N_2O_9$  (574.68). Pharm: Analgesic; toxin. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

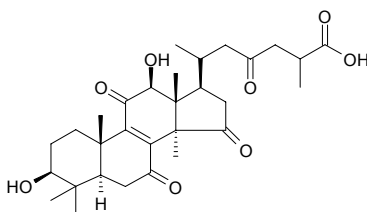
**4742 Deacetylfruticolone**

$C_{20}H_{28}O_5$  (348.44). Colorless oil,  $[\alpha]_D^{25} = +5.4^\circ$  ( $c = 0.22$ , CHCl<sub>3</sub>).

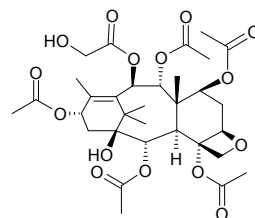
Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = 10μg/cm<sup>2</sup>, FR<sub>50</sub> = 1.03±0.07). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.

**4743 12-Deacetylganoderic acid H**

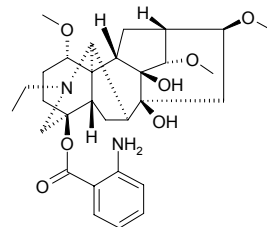
$C_{30}H_{42}O_8$  (530.66). Source: LING ZHI *Ganoderma lucidum* (dried sporocarp: yield = 0.0021%). Ref: 4603.

**4744 10-Deacetyl-10-glycolylbaccatin IV**

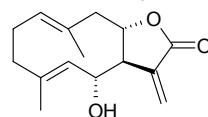
$C_{32}H_{44}O_{15}$  (668.70). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

**4745 N-Deacetylappaconitine**

Puberanidine [11033-64-0]  $C_{30}H_{42}N_2O_7$  (542.68). Pharm: Analgesic; toxin. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

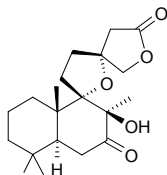
**4746 Deacetylalurenobiolide**

$C_{15}H_{20}O_3$  (248.32). Pharm: Anti-inflammatory (RAW264.7 cells, LPS-induced: NF-κB inhibitor, IC<sub>50</sub> = (7.17±0.16)μmol/L, control PTN, IC<sub>50</sub> = (3.42±0.08)μmol/L; NO production inhibitor, IC<sub>50</sub> = (5.76±0.28)μmol/L, PTN, IC<sub>50</sub> = (2.41±0.06)μmol/L, AG, IC<sub>50</sub> = (34.18±0.98)μmol/L; TNF-α production inhibitor, IC<sub>50</sub> = (27.76±1.76)μmol/L, PTN, IC<sub>50</sub> = (2.68±0.11)μmol/L). Source: LIN DI HAO *Artemisia sylvatica* (aerial parts). Ref: 3837.

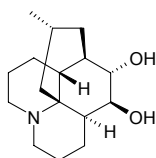


**4747 8-Deacetylpepersin A**

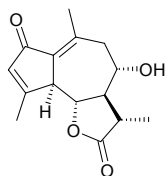
$C_{20}H_{30}O_5$  (350.46). White powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**4748 Deacetyllyoclavine**

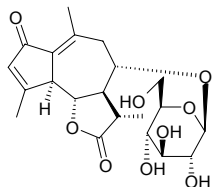
$C_{16}H_{27}NO_2$  (265.40). Source: QIAN CENG TA *Huperzia serrata* [Syn. *Lycopodium serratum*]. Ref: 4388.

**4749 Deacetylmatricarin**

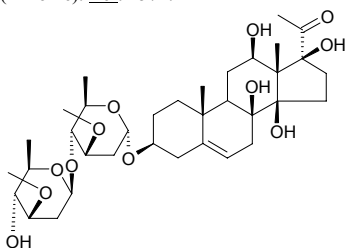
$C_{15}H_{18}O_4$  (262.31). mp 123~125°C; 143~146°C. Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*, YANG SHI CAO *Achillea millefolium*, YI KUA *Artemisia myriantha* (aerial parts), YI ZHI HAO *Achillea alpina* [Syn. *Achillea sibirica*]. Ref: 6, 4618, 5357.

**4750 Deacetylmatricarin 8-O-β-glucopyranoside**

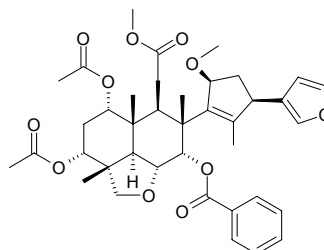
$C_{21}H_{28}O_9$  (424.45). Colorless gum,  $[\alpha]_D^{26} = -52.4^\circ$  ( $c = 0.82$ , MeOH). Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*. Ref: 5357.

**4751 Deacetylmetaplexigenin 3-O-β-D-oleandropyranosyl-(1→4)-α-D-oleandropyranoside**

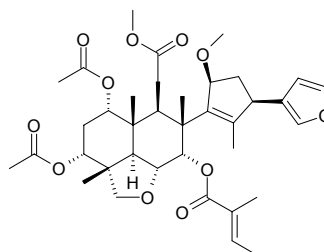
$C_{35}H_{56}O_{12}$  (668.83). White powder, mp 118~121°C,  $[\alpha]_D^{20} = +4.8^\circ$  ( $c = 0.21$ , EtOH). Source: QING YANG SHEN *Cynanchum otophyllum* (rhizome). Ref: 4574.

**4752 15-O-Deacetyl-15-O-methylnimbolidin A**

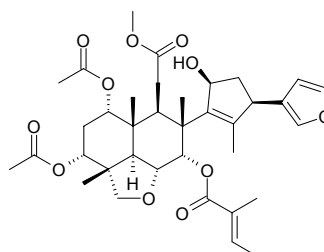
$C_{39}H_{48}O_{11}$  (692.81). Colorless amorphous solid,  $[\alpha]_D^{21} = -5.8^\circ$  ( $c = 1.26$ ,  $CHCl_3$ ). Pharm: Cytotoxic (HeLa-S3,  $IC_{50} = 37.4\mu\text{mol/L}$ , control 5-FU,  $IC_{50} = 5.40\mu\text{mol/L}$ , Cisplatin,  $IC_{50} = 2.46\mu\text{mol/L}$ ). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

**4753 15-O-Deacetyl-15-O-methylnimbolidin B**

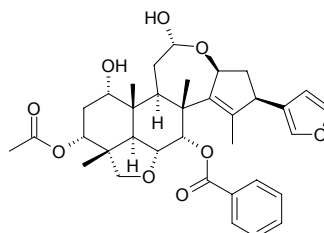
$C_{37}H_{50}O_{11}$  (670.80). Colorless amorphous solid,  $[\alpha]_D^{21} = -6.7^\circ$  ( $c = 1.28$ ,  $CHCl_3$ ). Pharm: Cytotoxic (HeLa-S3,  $IC_{50} = 28.3\mu\text{mol/L}$ , control 5-FU,  $IC_{50} = 5.40\mu\text{mol/L}$ , Cisplatin,  $IC_{50} = 2.46\mu\text{mol/L}$ ). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

**4754 15-O-Deacetylnimbolidin B**

$C_{36}H_{48}O_{11}$  (656.78). Colorless amorphous solid,  $[\alpha]_D^{21} = -6.7^\circ$  ( $c = 1.28$ ,  $CHCl_3$ ). Pharm: Cytotoxic (HeLa-S3,  $IC_{50} = 0.10\mu\text{mol/L}$ , control 5-FU,  $IC_{50} = 5.40\mu\text{mol/L}$ , Cisplatin,  $IC_{50} = 2.46\mu\text{mol/L}$ ). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

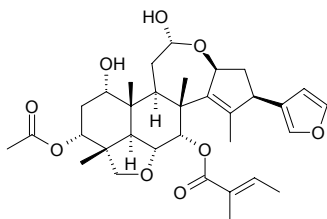
**4755 1-Deacetylnimbolidin A**

$C_{35}H_{42}O_9$  (606.72). Amorphous powder,  $[\alpha]_D = -7^\circ$  ( $c = 0.15$ ). Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.

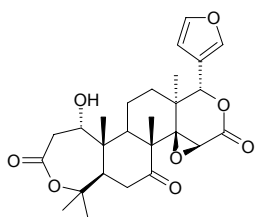


**4756 1-Deacetylnimbolinin B**

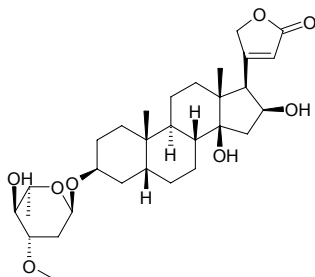
$C_{33}H_{44}O_9$  (584.71). Amorphous powder. Source: CHUAN LIAN PI *Melia toosendan*. Ref: 2374.

**4757 Deacetylnomilin**

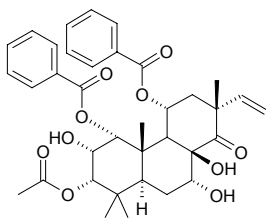
$C_{26}H_{32}O_8$  (472.54). Source: YOU HE *Citrus grandis*. Ref: 6.

**4758 Deacetyloleandrin**

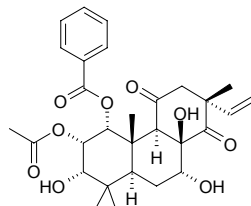
$C_{30}H_{46}O_8$  (534.70). mp 235~238°C. Source: JIA ZHU TAO *Nerium indicum*. Ref: 6.

**4759 7-O-Deacetylorthosiphol B**

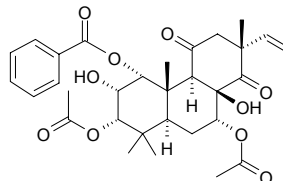
$C_{36}H_{42}O_{10}$  (634.73). Colorless amorphous solid,  $[\alpha]_D^{25} = -94.4^\circ$  ( $c = 0.033$ ,  $CHCl_3$ ). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells,  $IC_{50} = 102\mu mol/L$ ; control *L*-NMMA,  $IC_{50} = 26.0\mu mol/L$ , Polymixin B,  $IC_{50} = 27.8\mu g/mL$ , Dexamethasone  $IC_{50} = 170\mu mol/L$ ). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). Ref: 4322.

**4760 3-O-Deacetylorthosiphol I**

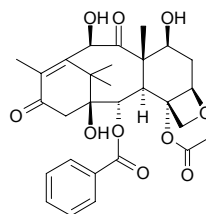
$C_{29}H_{36}O_9$  (528.60). Colorless amorphous solid,  $[\alpha]_D^{25} = -47.8^\circ$  ( $c = 0.04$ ,  $CHCl_3$ ). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells,  $IC_{50} = 66.3\mu mol/L$ ; control *L*-NMMA,  $IC_{50} = 26.0\mu mol/L$ , Polymixin B,  $IC_{50} = 27.8\mu g/mL$ , Dexamethasone  $IC_{50} = 170\mu mol/L$ ). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts: yield = 0.000045%dw). Ref: 4322, 4741.

**4761 2-O-Deacetylorthosiphol J**

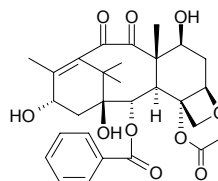
$C_{31}H_{38}O_{10}$  (570.64). Colorless amorphous solid,  $[\alpha]_D^{25} = -48.6^\circ$  ( $c = 0.044$ ,  $CHCl_3$ ). Pharm: NO production inhibitor (LPS-activated macrophage-like J774.1 cells,  $IC_{50} = 24.1\mu mol/L$ ; control *L*-NMMA,  $IC_{50} = 26.0\mu mol/L$ , Polymixin B,  $IC_{50} = 27.8\mu g/mL$ , Dexamethasone  $IC_{50} = 170\mu mol/L$ ). Source: XIONG RUI ZHUANG ZHI GUAN CAO *Orthosiphon stamineus* [Syn: *Orthosiphon aristatus*; *Orthosiphon grandiflorus*; *Orthosiphon spicatus*] (aerial parts). Ref: 4322.

**4762 10-Deacetyl-13-oxobaccatin III**

$C_{29}H_{34}O_{10}$  (542.59). Pharm: Cytotoxic (*in vitro*, 30 $\mu g/mL$ : A498, InRt = 29.7%; NCI-H226, InRt = 49.2%; A549, InRt = 43.9%; PC3, InRt = 65.3%; control Taxol, 30 $\mu g/mL$ : A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

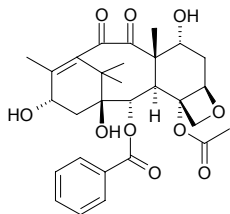
**4763 10-Deacetyl-10-oxobaccatin III**

$C_{29}H_{34}O_{10}$  (542.59). Pharm: Cytotoxic (*in vitro*, 30 $\mu g/mL$ : A498, InRt = 79.1%; NCI-H226, InRt = 97.3%; A549, InRt = 54.7%; PC3, InRt = 100%; control Taxol, 30 $\mu g/mL$ : A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4800.

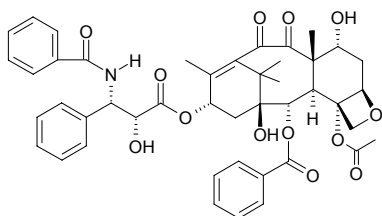


**4764 10-Deacetyl-10-oxobaccatin V**

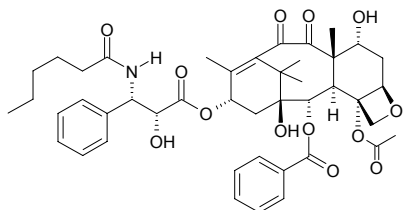
$C_{29}H_{34}O_{10}$  (542.59). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4765 10-Deacetyl-10-oxo-7-epitaxol**

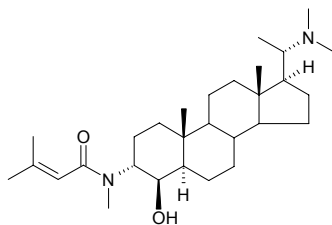
$C_{45}H_{47}NO_{13}$  (809.88).  $[\alpha]_D^{25} = -60.4$  (MeOH). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.000026%dw)<sup>[4666]</sup>. Ref: 662, 4666.

**4766 10-Deacetyl-10-oxo-7-epitaxuyunnanine A**

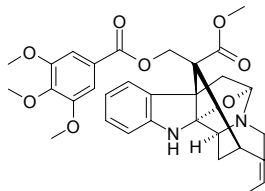
$C_{44}H_{53}NO_{13}$  (803.91).  $[\alpha]_D^{25} = -70.8^\circ$  (CHCl<sub>3</sub>). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**4767 O-Deacetylpachysandrine B**

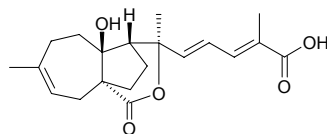
$C_{29}H_{50}N_2O_2$  (458.73). mp 184~185°C. Source: XUE SHAN LIN *Pachysandra terminalis*. Ref: 6.

**4768 Deacetylpicraline-3,4,5-trimethoxybenzoat**

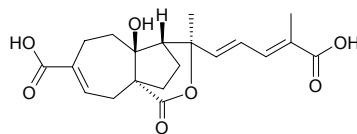
$C_{31}H_{34}N_2O_8$  (562.63). White acicular crystals, mp 222°C,  $[\alpha]_D^{17} = -185^\circ$  (c = 0.052, chloroform). Source: DIAN JI GU CHANG SHAN *Alstonia yunnanensis*. Ref: 42.

**4769 Deacetylpsedularic acid A**

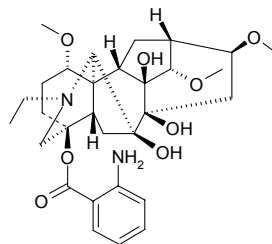
$C_{20}H_{26}O_5$  (346.43). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.00003%dw). Ref: 4637.

**4770 Deacetylpsedularic acid C<sub>2</sub>**

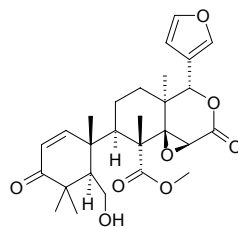
$C_{20}H_{24}O_7$  (376.41). Source: TU JING PI *Pseudolarix amabilis* [Syn. *Larix amabilis*; *Pseudolarix kaempferi*] (root cortex: yield = 0.00025%dw). Ref: 4637.

**4771 N-Deacetylraconitine**

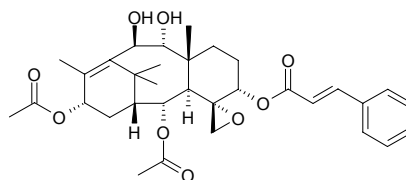
[82872-80-8]  $C_{30}H_{42}N_2O_8$  (558.68). Pharm: Analgesic; toxin. Source: GAN WAN WU TOU *Aconitum finetianum*. Ref: 658.

**4772 Deacetylsecomahoganin**

$C_{27}H_{34}O_8$  (486.57). White amorphous powder. Source: TAO HUA XIN MU *Swietenia mahogany* (leaf). Ref: 4420.

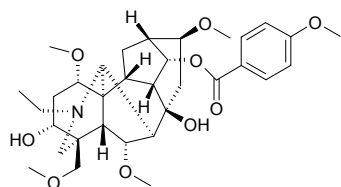
**4773 10β-Deacetylspicatin**

$C_{33}H_{42}O_9$  (582.70). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.

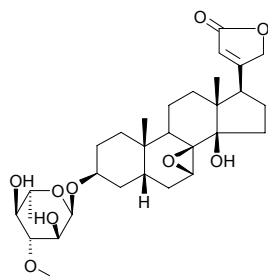


**4774 8-Deacetylsungpanconitine**

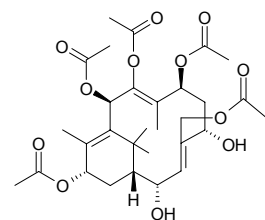
$C_{33}H_{47}NO_9$  (601.74). Source: ZHUA KUI GUA YE WU TOU *Aconitum hemisleyanum* var. *leueanthus* (root: yield = 0.0027%dw). Ref: 4678.

**4775 Deacetyltanghinin**

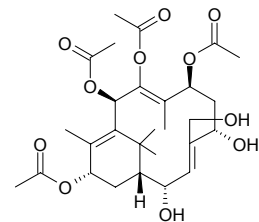
$C_{30}H_{44}O_9$  (548.68). Pharm: Cytotoxic (KB,  $ED_{50}$  = 0.05  $\mu$ g/mL, BC,  $ED_{50}$  = 1.48  $\mu$ g/mL, NCI-H187,  $ED_{50}$  = 0.1  $\mu$ g/mL)<sup>[2594]</sup>. Source: NIU XIN QIE ZI *Cerbera manghas*. Ref: 2594.

**4776 2-Deacetyltaxachitriene A**

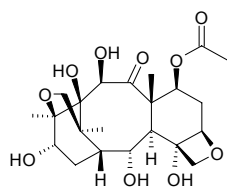
$C_{30}H_{42}O_{12}$  (594.66). mp 82~83°C,  $[\alpha]_D = -51^\circ$  (CHCl<sub>3</sub>). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4777 5-Deacetyltaxachitriene B**

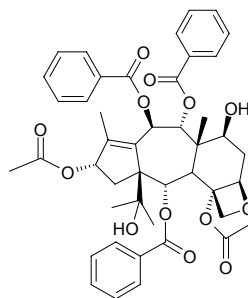
$C_{28}H_{40}O_{11}$  (552.62). mp 96~98°C,  $[\alpha]_D = +67.7^\circ$  (MeOH). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4778 4-Deacetyltaxagifine III**

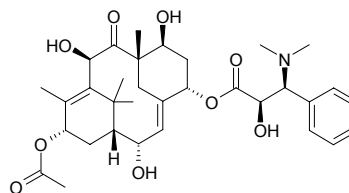
[135962-71-9]  $C_{22}H_{32}O_{10}$  (456.49). mp 221~223°C,  $[\alpha]_D = +38.1^\circ$  (MeOH). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**4779 7-Deacetylaxayuntin D**

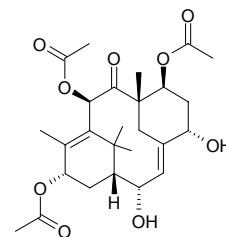
$C_{45}H_{48}O_{13}$  (796.88). mp 164~166°C. Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**4780 2-Deacetyltaxine A**

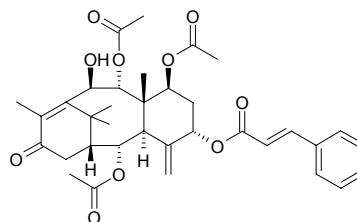
Taxine C  $C_{33}H_{45}NO_9$  (599.73). mp 220~221°C,  $[\alpha]_D = -106^\circ$  (CHCl<sub>3</sub>),  $[\alpha]_D = -73^\circ$  (CHCl<sub>3</sub>). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662, 1498.

**4781 2-Deacetyltaxine B**

2-Deacetyl-7,10-diacetyl-5-deaminoacyl taxine A  $C_{26}H_{36}O_9$  (492.57). mp 178~179°C,  $[\alpha]_D = -218.2^\circ$  (CHCl<sub>3</sub>). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 3958.

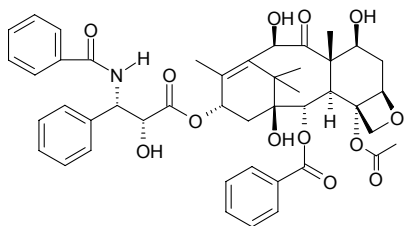
**4782 10-Deacetyl taxinine B**

$C_{35}H_{42}O_{10}$  (622.72). Colorless thin acicular crystals, mp 245~248°C. Source: ZI SHAN *Taxus cuspidata*. Ref: 291, 662.

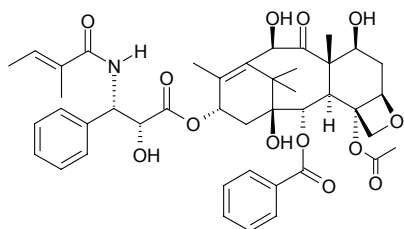


**4783 10-Deacetyltaxol**

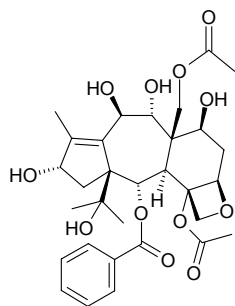
$C_{45}H_{49}NO_{13}$  (811.89).  $[\alpha]_D = -3^\circ$  (pyridine). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4784 10-Deacetyltaxol B**

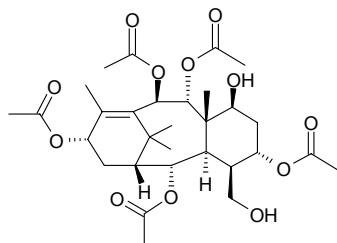
10-Deacetylcephalomannine  $C_{43}H_{51}NO_{13}$  (789.88).  $[\alpha]_D = -2^\circ$  (pyridine). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4785 13-O-Deacetyltaxumairol Z**

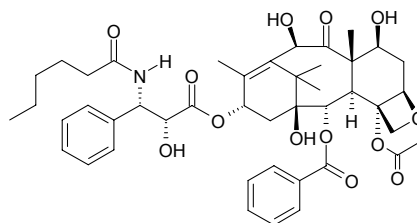
$C_{31}H_{40}O_{12}$  (604.66). Amorphous powder,  $[\alpha]_D^{25} = -42^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4250.

**4786 7-Deacetyltaxuspine L**

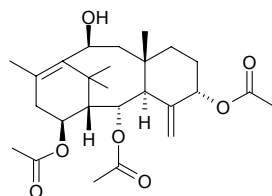
$C_{30}H_{44}O_{12}$  (596.68). Gum. Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). Ref: 3958.

**4787 10-Deacetyltaxuyunnanine A**

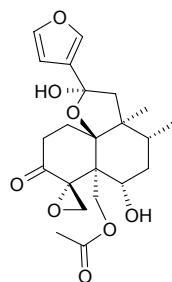
10-Deacetyltaxol C  $C_{44}H_{55}NO_{13}$  (805.93).  $[\alpha]_D = -50.9^\circ$  ( $CHCl_3$ ). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.000026%dw)<sup>[4666]</sup>, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 4666.

**4788 10-Deacetyltaxuyunnanine C**

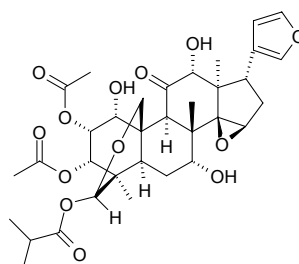
$C_{26}H_{38}O_7$  (462.59). Pharm: Cytotoxic (*in vitro*, Colon26-L5,  $EC_{50} = 76.1 \mu g/mL$ ; HT1080,  $EC_{50} = 53.8 \mu g/mL$ ; control 5-FU, 26-L5,  $EC_{50} = 0.29 \mu g/mL$ ; HT1080,  $EC_{50} = 0.07 \mu g/mL$ )<sup>[4661]</sup>; NO production inhibitor ( $IC_{50} = 28.5 \mu mol/L$ , control *L*-NMMA,  $IC_{50} = 28.5 \mu mol/L$ )<sup>[5407]</sup>. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0031%dw). Ref: 4661, 5407.

**4789 6-Deacetyl-teucrolivin A**

$C_{22}H_{28}O_8$  (420.46). Amorphous solid,  $[\alpha]_D^{25} = +39.60^\circ$  ( $c = 1.0$ ,  $CHCl_3$ ). Source: DONG FANG XIANG KE KE *Teucrium orientale*. Ref: 2552.

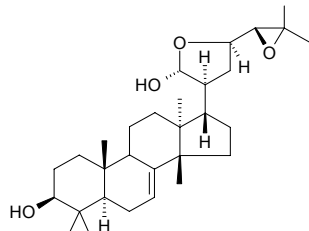
**4790 12-O-Deacetylrichilin H**

$C_{34}H_{44}O_{13}$  (660.72). Colorless amorphous solid,  $[\alpha]_D^{21} = -47.5^\circ$  ( $c = 1.06$ ,  $CHCl_3$ ). Pharm: Cytotoxic (HeLa-S3,  $IC_{50} = 0.48 \mu mol/L$ , control 5-FU,  $IC_{50} = 5.40 \mu mol/L$ , Cisplatin,  $IC_{50} = 2.46 \mu mol/L$ ). Source: KU LIAN SHI *Melia azedarach* (ripe fruit). Ref: 4528.

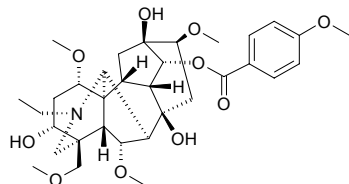


**4791 Deacetylurraeanthin**

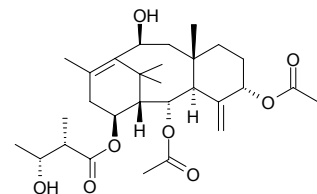
$C_{30}H_{48}O_4$  (472.71). mp 202~206°C. Source: RI BEN KU LIAN *Melia azedarach* var. *japonica*. Ref: 6, 660.

**4792 8-Deacetylyunaconitine**

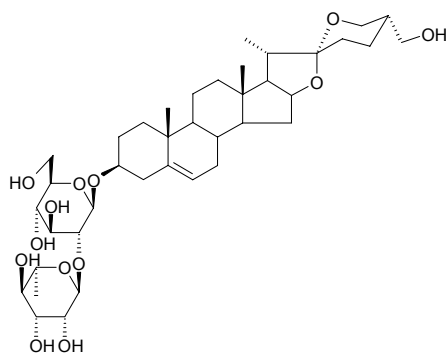
[93460-55-0]  $C_{33}H_{47}NO_{10}$  (617.74). White amorphous powder. Source: GONG GA SHAN WU TOU *Aconitum liljestrandii*, GUAY YE WU TOU *Aconitum hemisleyanum*. Ref: 2191.

**4793 10-Deacetylyunnanaxane**

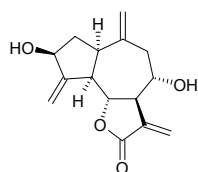
$C_{29}H_{44}O_8$  (520.67). Source: JIE ZHI HONG DOU SHAN *Taxus media*. Ref: 662.

**4794 Deacylbrownioside**

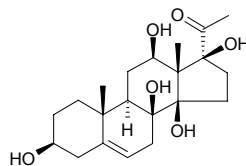
$C_{39}H_{62}O_{13}$  (738.92). Colorless needles ( $CHCl_3$ -MeOH), mp 258~260°C (dec),  $[\alpha]_D^{23.9} = -100^\circ$  ( $c = 0.175$ , pyridine). Source: XIAO HUA DUN YE SHU YU *Dioscorea parviflora* (fresh rhizome). Ref: 4858.

**4795 Deacylnaropicrin**

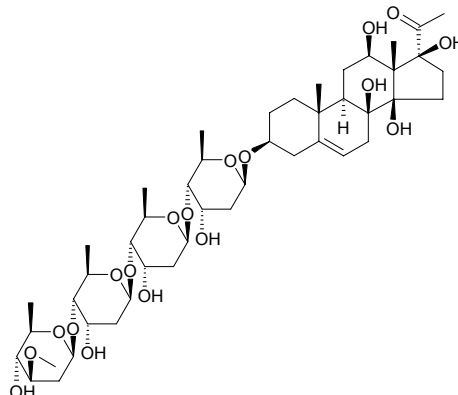
$C_{15}H_{18}O_4$  (262.31). mp 152°C,  $[\alpha]_D^{20} = +120^\circ$  ( $c = 0.5$ , methanol). Pharm: Cytotoxic (HeLa,  $ID_{50} = 5\mu g/mL$ ). Source: YAN DI FENG MAO JU *Saussurea salsa*. Ref: 661.

**4796 Deacetylmetaplexigenin**

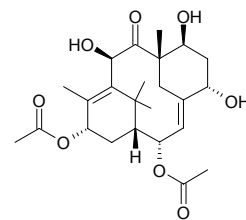
$C_{21}H_{32}O_6$  (380.48). Source: LUO MO *Metaplexis japonica*, BAI SHOU WU *Cynanchum bungei*, ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 6, 3925.

**4797 Deacetylmetaplexigenin 3-O-β-D-oleandropyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranosyl-(1→4)-β-D-digitoxopyranoside**

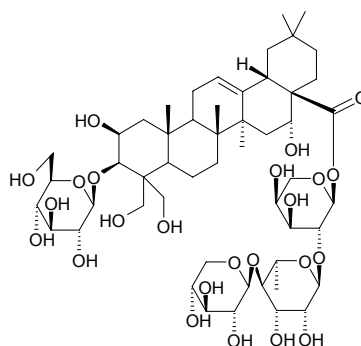
$C_{46}H_{74}O_{18}$  (915.09). Amorphous powder,  $[\alpha]_D^{27} = +18.6^\circ$  ( $c = 1.17$ , MeOH). Source: ROU HONG MA LI JIN *Asclepias incarnata* (aerial parts). Ref: 3925.

**4798 Deaminoacetylaxine A**

$C_{24}H_{34}O_8$  (450.53). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4799 Deapio platycodin D**

3-O-β-D-Glucopyranosyl-2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid 28-O-β-D-xylopyranosyl-(1→4)-α-L-rhamnopyranosyl-(1→2)-α-L-arabinopyranoside  $C_{52}H_{84}O_{24}$  (1093.23). Source: JIE GENG *Platycodon grandiflorum*. Ref: 4900.

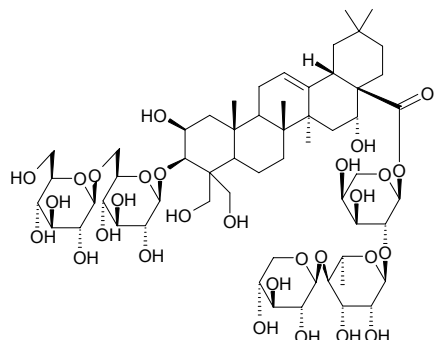




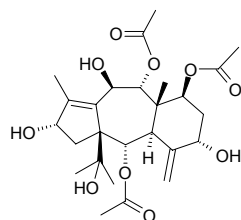
**4800 Deapio platycodin D<sub>3</sub>**

3-*O*-β-*D*-Glucopyranosyl-(1→6)-β-*D*-glucopyranosyl 2β,3β,16α,23,24-pentahydroxyolean-12-ene-28-oic acid 28-*O*-β-*D*-xylopyranosyl-(1→4)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranoside C<sub>58</sub>H<sub>94</sub>O<sub>29</sub> (1255.38).

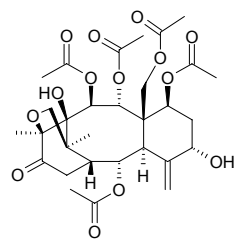
Source: JIE GENG *Platycodon grandiflorum*. Ref: 4900.

**4801 10-Debenzoyl-2α-acetoxy-brevifoliol**

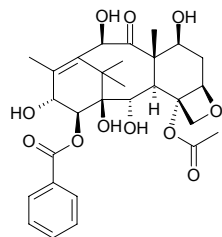
C<sub>26</sub>H<sub>38</sub>O<sub>10</sub> (510.59). mp 180°C, [α]<sub>D</sub> = +32.6° (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4802 19-Debenzoyl-19-acetyltaxinine M**

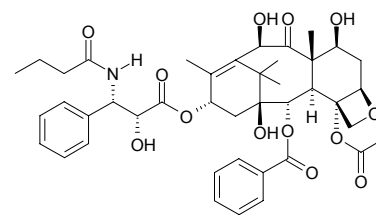
C<sub>30</sub>H<sub>40</sub>O<sub>14</sub> (624.64). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4803 2-Debenzoyl-14β-benzoyloxy-10-deacetylbaaccatin III**

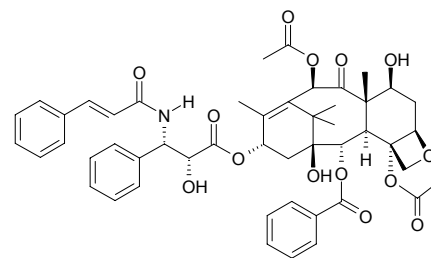
C<sub>29</sub>H<sub>36</sub>O<sub>11</sub> (560.60). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**4804 *N*-Debenzoyl-*N*-butanoyl-10-deacetylpaclitaxel**

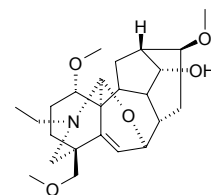
C<sub>42</sub>H<sub>51</sub>NO<sub>13</sub> (777.87). mp 244°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4805 *N*-Debenzoyl-*N*-cinnamoyltaxol**

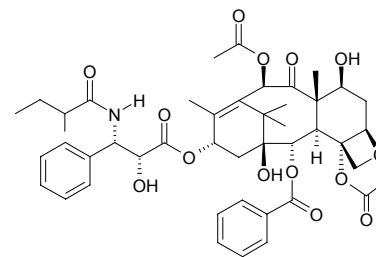
C<sub>49</sub>H<sub>53</sub>NO<sub>14</sub> (879.97). mp 180°C, [α]<sub>D</sub> = -16.6° (MeOH). Source: ZHAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4806 14-Debenzoylfranchetine**

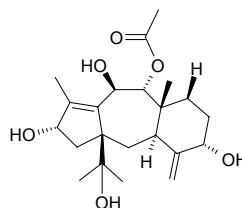
C<sub>24</sub>H<sub>37</sub>NO<sub>5</sub> (419.57). White amorphous powder. Source: GONG GA SHAN WU TOU *Aconitum liljestrandii*. Ref: 2191.

**4807 *N*-Debenzoyl-*N*-(2-methylbutyryl)taxol**

C<sub>45</sub>H<sub>55</sub>NO<sub>14</sub> (833.94). mp 226°C, [α]<sub>D</sub> = -48° (MeOH). Source: ZHAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

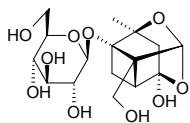
**4808 7-Debenzoyloxy-10-deacetyl-brevifoliol**

C<sub>22</sub>H<sub>34</sub>O<sub>6</sub> (394.51). mp 160~162°C, [α]<sub>D</sub> = -24° (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

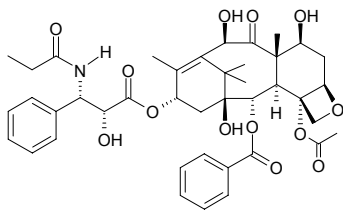


**4809 8-*O*-Debenzoylpaconiflorin**

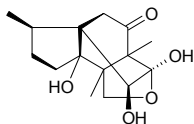
$C_{16}H_{24}O_{10}$  (376.36). Colorless amorphous solid,  $[\alpha]_D^{23} = -12.8^\circ$  ( $c = 0.195$ , MeOH). Source: *Ducrosia anethifolia* (aerial parts). Ref: 5469.

**4810 *N*-Debenzoyl-*N*-propanoyl-10-deacetyl paclitaxel**

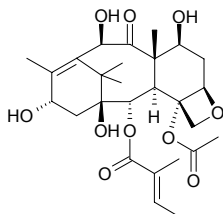
$C_{41}H_{49}NO_{13}$  (763.85). mp  $245^\circ\text{C}$ . Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4811 11-*O*-Debenzoyltashironin**

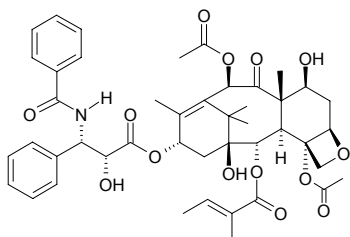
$C_{15}H_{22}O_5$  (282.34). Colorless solid,  $[\alpha]_D^{22} = -65^\circ$  ( $c = 0.72$ ,  $\text{CHCl}_3$ ). Pharm: Neurotrophic activity (primary culture of rat cortical neurons,  $0.1$ - $10\mu\text{mol/L}$ ). Source: *Illicium merrillianum* (pericarp: yield =  $0.00019\%$ dw). Ref: 3046.

**4812 2-Debenzoyl-2-tigloyl-10-deacetyl baccatin III**

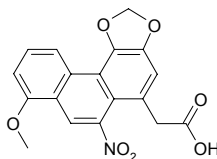
$C_{27}H_{38}O_{10}$  (522.60). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**4813 2-Debenzoyl-2-tigloyltaxol**

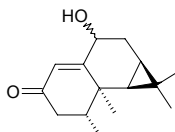
Isocephalomannine  $C_{45}H_{53}NO_{14}$  (831.92). mp  $232^\circ\text{C}$ ,  $[\alpha]_D = -44^\circ$  (MeOH). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662.

**4814 Debilic acid**

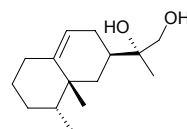
[475-85-4]  $C_{18}H_{13}NO_7$  (355.31). mp  $> 350^\circ\text{C}$  (dec). Source: JI SHI TENG GUO *Paederia scandens*, QING MU XIANG *Aristolochia debilis* [Syn. *Aristolochia longa*]. Ref: 6, 660.

**4815 Debilone**

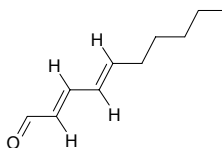
9-Hydroxy- $\Delta^{1(10)}$ -aristolene-2-one [26808-51-5]  $C_{15}H_{22}O_2$  (234.34). mp  $135^\circ\text{C}$ . Source: GAN SONG *Nardostachys chinensis*. Ref: 6.

**4816 Debneyol**

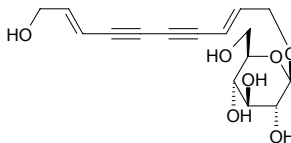
[99694-82-3]  $C_{15}H_{26}O_2$  (238.37). Pharm: Antifungal (*in vitro*, *Cladosporium cucumerinum*,  $\text{ED}_{50} = 50$ - $70\mu\text{g/mL}$ ) Source: YAN CAO *Nicotiana tabacum*. Ref: 1087, 1114.

**4817 (*E,E*)-2,4-Decadienal**

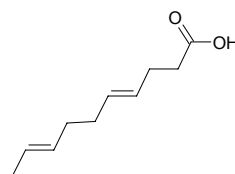
[25152-84-5]  $C_{10}H_{16}O$  (152.24). Source: XING REN *Prunus armeniaca*. Ref: 2.

**4818 (2*E*,8*E*)-2,8-Decadiene-4,6-diyne-1,10-diol 1-*O*- $\beta$ -*D*-glucopyranoside**

$C_{16}H_{20}O_7$  (324.33). Amorphous powder,  $[\alpha]_D^{21} = -77^\circ$  ( $c = 0.2$ , MeOH). Source: CANG ZHU *Atractylodes lancea*. Ref: 4348.

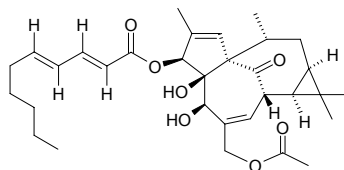
**4819 Decadienoic acid**

[13159-49-4]  $C_{10}H_{16}O_2$  (168.24). Source: PI JIU HUA *Humulus lupulus*. Ref: 1521.

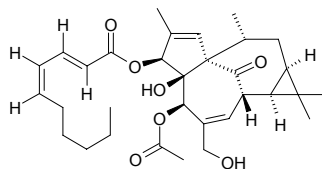


**4820 3-O-(2'E,4'E-Decadienoyl)-20-O-acetylingenol**

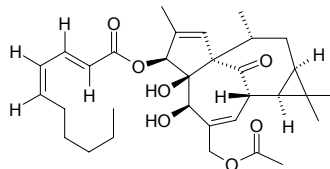
Ingenol-3-(2,4-decadienoate)-20-acetate  $C_{32}H_{44}O_7$  (540.70). Colorless oil,  $[\alpha]_D^{23} = +84.1^\circ$  ( $c = 0.10$ , MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage,  $0.5\mu\text{g/mL}$ , cleavage arrest  $> 75\%$ )<sup>[4645]</sup>. **Source:** GAN SUI *Euphorbia kansui* (root: yield =  $0.00006\%$ dw)<sup>[4645]</sup>. **Ref:** 660, 4645.

**4821 3-O-(2'E,4'Z-Decadienoyl)-5-O-acetylingenol**

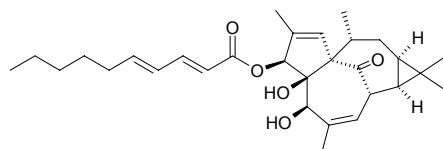
$C_{32}H_{44}O_7$  (540.7). Colorless oil,  $[\alpha]_D^{23} = +61.73^\circ$  ( $c = 0.10$ , MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage,  $0.5\mu\text{g/mL}$ , cleavage arrest  $> 75\%$ ). **Source:** GAN SUI *Euphorbia kansui* (root: yield =  $0.00005\%$ dw). **Ref:** 4645.

**4822 3-O-(2'E,4'Z-Decadienoyl)-20-O-acetylingenol**

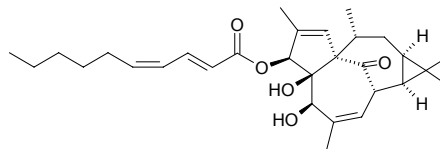
$C_{32}H_{44}O_7$  (540.70). Colorless oil. **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage,  $0.5\mu\text{g/mL}$ , cleavage arrest  $> 75\%$ ). **Source:** GAN SUI *Euphorbia kansui* (root: yield =  $0.00007\%$ dw). **Ref:** 4645.

**4823 3-O-(2E,4E-Decadienoyl)-20-deoxyingenol**

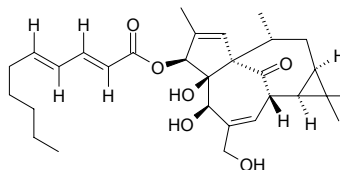
$C_{30}H_{42}O_5$  (482.67). Colorless gum,  $[\alpha]_D^{23} = +57.5^\circ$  ( $c = 0.16$ , MeOH). **Pharm:** Induces cell cleavage arrest (*Xenopus laevis* embryo cells at the blastular stage, at  $0.5\mu\text{g/mL}$  compound results in  $> 75\%$  cell cleavage arrest). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

**4824 3-O-(2E,4Z-Decadienoyl)-20-deoxyingenol**

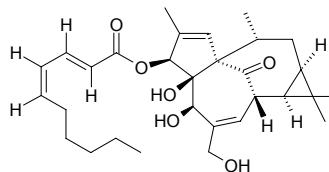
$C_{30}H_{42}O_5$  (482.67). Colorless gum,  $[\alpha]_D^{23} = +42.1^\circ$  ( $c = 0.28$ , MeOH). **Pharm:** Induces cell cleavage arrest (*Xenopus laevis* embryo cells at the blastular stage, at  $0.5\mu\text{g/mL}$  compound results in  $> 75\%$  cell cleavage arrest). **Source:** GAN SUI *Euphorbia kansui*. **Ref:** 4368.

**4825 3-O-(2'E,4'E-Decadienoyl)ingenol**

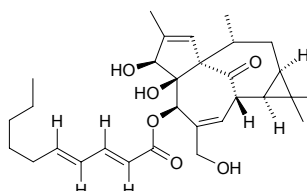
$C_{30}H_{42}O_6$  (498.67). Colorless oil,  $[\alpha]_D^{23} = +89.09^\circ$  ( $c = 0.10$ , MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage,  $0.5\mu\text{g/mL}$ , cleavage arrest  $> 75\%$ ). **Source:** GAN SUI *Euphorbia kansui* (root: yield =  $0.00009\%$ dw). **Ref:** 4645.

**4826 3-O-(2'E,4'Z-Decadienoyl)ingenol**

$C_{30}H_{42}O_6$  (498.67). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage,  $0.5\mu\text{g/mL}$ , cleavage arrest  $> 75\%$ ). **Source:** GAN SUI *Euphorbia kansui* (root: yield =  $0.00011\%$ dw). **Ref:** 4645.

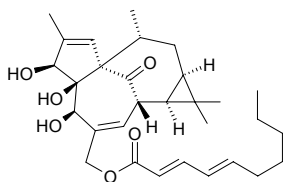
**4827 5-O-(2'E,4'E-Decadienoyl)ingenol**

$C_{30}H_{42}O_6$  (498.67). Colorless oil,  $[\alpha]_D^{23} = -7.69^\circ$  ( $c = 0.13$ , MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage,  $0.5\mu\text{g/mL}$ , cleavage arrest  $> 75\%$ ). **Source:** GAN SUI *Euphorbia kansui* (root: yield =  $0.0015\%$ dw). **Ref:** 4645.

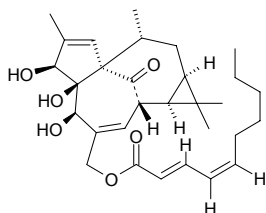


**4828 20-O-(2'E,4'Z-Decadienoyl)ingenol**

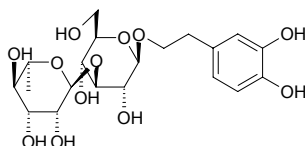
$C_{30}H_{42}O_6$  (498.67). Colorless oil,  $[\alpha]_D^{23} = +3.15^\circ$  ( $c = 0.19$ , MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5  $\mu$ g/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00008%dw). **Ref:** 4645.

**4829 20-O-(2'E,4'Z-Decadienoyl)ingenol**

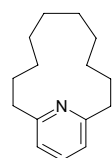
$C_{30}H_{42}O_6$  (498.67). Colorless oil,  $[\alpha]_D^{23} = +2.50^\circ$  ( $c = 0.16$ , MeOH). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5  $\mu$ g/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00009%dw). **Ref:** 4645.

**4830 Decaffeoylverbascoside**

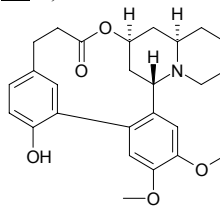
Decaffeoylverbascoside  $C_{20}H_{30}O_{12}$  (462.45). **Pharm:** Antioxidant (ferric thiocyanate method, 0.5mmol/L, peroxidation value = 6.6%, control BHA, 0.5mmol/L, peroxidation value = 4.5%, control Vitamin E, 0.5mmol/L, peroxidation value = 14.7%)<sup>[4508]</sup>. **Source:** ROU CONG RONG *Cistanche deserticola*, TIAN SHE CAO *Lippia dulcis* (aerial parts). **Ref:** 2448, 4508.

**4831 2,6-Decamethylene pyridine**

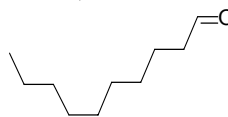
$C_{15}H_{23}N$  (217.36). **Source:** SHE XIANG *Moschus moschiferus*; *Moschus berezovskii*; *Moschus sifanicus*. **Ref:** 2.

**4832 Decamine**

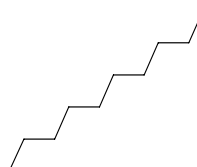
Weedone [17349-05-2]  $C_{26}H_{31}NO_5$  (437.54). mp 223~224°C. **Pharm:** Antibacterial (*Bacillus diphtheriae in vitro*, 4  $\mu$ g/mL); antifungal (*Candida albicans in vitro*, 8  $\mu$ g/mL). **Source:** ZI WEI HUA *Lagerstroemia indica*, DI KE DONG *Decodon verticillatus*, ZI WEI YE *Lagerstroemia indica*. **Ref:** 6, 658.

**4833 Decanal**

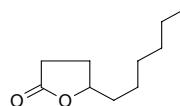
Capric aldehyde [112-31-2]  $C_{10}H_{20}O$  (156.27). **Source:** DONG LING CAO *Rabdosia rubescens*, GAN JIANG *Zingiber officinale*, JU PI *Citrus reticulata*, YU XING CAO *Houttuynia cordata*. **Ref:** 2.

**4834 Decane**

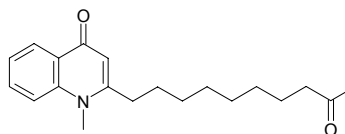
*n*-Decane [124-18-5]  $C_{10}H_{22}$  (142.29). **Source:** SHAN ZHA *Crataegus pinnatifida*. **Ref:** 2.

**4835  $\gamma$ -Decanolactone**

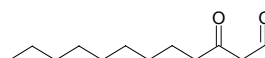
[706-14-9]  $C_{10}H_{18}O_2$  (170.25). **Source:** XING REN *Prunus armeniaca*, NAN HE SHI *Daucus carota*. **Ref:** 2, 660.

**4836 2-(Decan-9-one)-N-methyl-4-quinolone**

$C_{20}H_{27}NO_2$  (313.44). **Source:** MENG DA NA YUN XIANG *Ruta Montana* (whole herb). **Ref:** 3910.

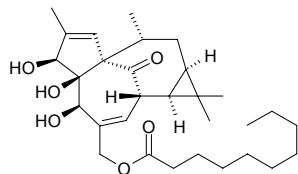
**4837 Decanoylactaldehyde**

Houttuynin  $C_{12}H_{22}O_2$  (198.31). **Pharm:** Antibacterial (*in vitro*, gram-positive bacteria, gram-negative bacteria; *in vitro* and *in vivo*, houttuynin isoniazone inhibits *Mycobacterium tuberculosis* strongly, MIC = 0.78~3.10mg/mL); immunoenhancer (chronic bronchitis patient, orl 90mg, 3 times daily, after seven days the level of properdin in blood has ascending tendency). **Source:** YU XING CAO *Houttuynia cordata* (aerial parts: content = 0.05%)<sup>[5501]</sup>. **Ref:** 2, 4, 1974, 2056, 5501.

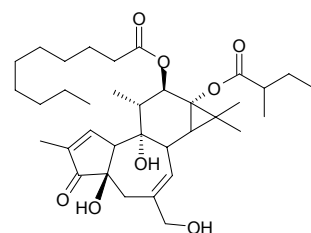


**4838 20-*O*-(Decanoyl)ingenol**

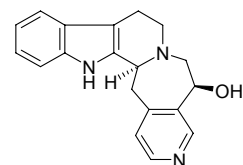
$C_{30}H_{46}O_6$  (502.7). **Pharm:** Cytotoxic (*in vitro* animal cap assay to screen for inhibitors of cell division, treatment of cultured individual *Xenopus* cells from the early *Xenopus laevis* embryo at the blastular stage, 0.5  $\mu$ g/mL, cleavage arrest > 75%). **Source:** GAN SUI *Euphorbia kansui* (root: yield = 0.00007%dw). **Ref:** 4645.

**4839 12-*O*-Decanoylphorbol-13-(2-methylbutyrate)**

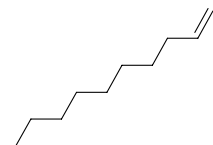
$C_{35}H_{54}O_8$  (602.82). Oil,  $[\alpha]_D^{25} = +56^\circ$  ( $c = 0.05$ ,  $CHCl_3$ ). **Pharm:** Anti-HIV-1 (MT-4 cells, HIV-1-induced cytopathic effect inhibitor,  $IC_{100} = 7.81 \mu$ g/mL,  $CC_0 = 31.3 \mu$ g/mL, control DS8000,  $IC_{100} = 3.9 \mu$ g/mL,  $CC_0 > 1000 \mu$ g/mL); PKC activator inactive (10ng/mL, activity rate = 0%)<sup>[3921]</sup>. **Source:** BA DOU *Croton tiglium*. **Ref:** 3921.

**4840 Decarbomethoxy naul echine**

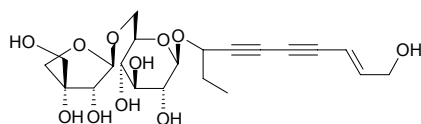
$C_{19}H_{19}N_3O$  (305.38). **Pharm:** Antibacterial (*in vitro*: *Staphylococcus aureus*, *Bacillus subtilis*, *Bacillus coli*, *Bacillus diphtheriae*, *Streptococcus* sp., *Streptobacillus* sp., *Salmonella* sp., *Bacillus proteus*, *Bacillus lactis*, *Klebsiella pneumoniae*); antileishmanial; antifungal (*Aspergillus niger*). **Source:** KUANG YE WU TAN *Nauclea latifolia*. **Ref:** 2178.

**4841 1-Decene**

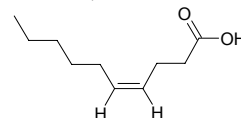
$C_{10}H_{20}$  (140.27). **Source:** KUANG DONG HUA *Tussilago farfara*. **Ref:** 660.

**4842 (2*E*)-2-Decene-4,6-diyne-1,8-diol 8-*O*- $\beta$ -D-apiofuranosyl-(1 $\rightarrow$ 6)- $\beta$ -D-glucopyranoside**

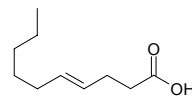
$C_{21}H_{30}O_{11}$  (458.47). Amorphous powder,  $[\alpha]_D^{23} = -144^\circ$  ( $c = 0.1$ , MeOH). **Source:** CANG ZHU *Atractylodes lancea* (rhizome). **Ref:** 4384.

**4843 *cis*-4-Decenoic acid**

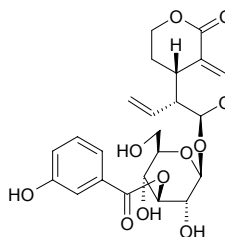
Obtusilic acid [505-90-8]  $C_{10}H_{18}O_2$  (170.25). bp 148~150°C/13mmHg. **Source:** CHENG QIE ZI *Litsea cubeba*, SAN ZUAN FENG *Lindera obtusiloba*, ZHEN CAI *Litsea pungens*. **Ref:** 6, 1521, 2825, 2956.

**4844 *trans*-4-Decenoic acid**

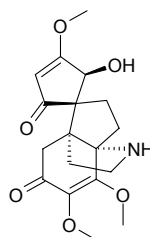
[26303-90-2]  $C_{10}H_{18}O_2$  (170.25). bp 148~150°C/13mmHg. **Source:** SAN ZUAN FENG *Lindera obtusiloba*. **Ref:** 6.

**4845 Decentapicrin A**

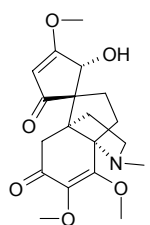
$C_{23}H_{26}O_{11}$  (478.46). **Source:** GUANG LIANG JIA LONG DAN *Gentiana nitida* (whole herb). **Ref:** 3542.

**4846 Dechloroacutumidine**

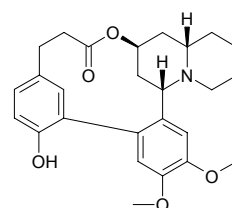
$C_{18}H_{23}NO_6$  (349.39).  $[\alpha]_D^{25} = -68^\circ$  ( $c = 0.2$ , MeOH) **Source:** BIAN FU GE *Menispermum dauricum*. **Ref:** 1946.

**4847 Dechlorodauricumine**

$C_{19}H_{25}NO_6$  (363.41). Amorphous powder,  $[\alpha]_D^{25} = +20.7^\circ$  ( $c = 0.10$ , MeOH). **Source:** BIAN FU GE GEN *Menispermum dauricum*. **Ref:** 5326.

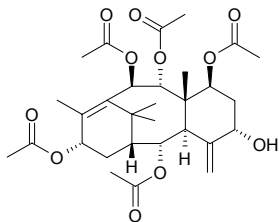
**4848 Decinine**

[10183-64-9]  $C_{26}H_{31}NO_5$  (437.54). mp 222~224°C. **Source:** ZI WEI YE *Lagerstroemia indica*. **Ref:** 6.

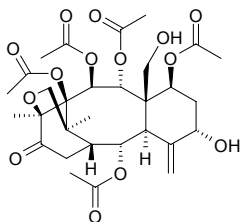


**4849 Decinnamol taxinine J**

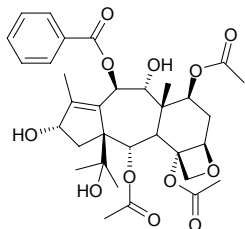
5 $\alpha$ -Hydroxy-2 $\alpha$ ,7 $\beta$ ,9 $\alpha$ ,10 $\beta$ ,13 $\alpha$ -Pentaacetoxy-4(20),11-taxadiene  
 $C_{30}H_{42}O_{11}$  (578.66). Colorless prisms. Source: AO DA LI YA HONG  
 DOU SHAN *Austrotaxus spicata*, DUAN YE HONG DOU SHAN *Taxus*  
*brevifolia*, HONG DOU SHAN *Taxus chinensis*. Ref: 662, 2488.

**4850 5-Decinnamoyl-11-acetyl-19-hydroxyl taxagifine**

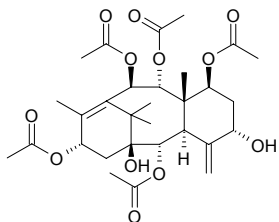
$C_{30}H_{40}O_{14}$  (624.64). White massive crystals, mp 209~210°C,  $[\alpha]_D^{14} = -12.1^\circ$  (chloroform). Source: YUN NAN HONG DOU SHAN *Taxus*  
*yunnanensis*. Ref: 296, 662.

**4851 13-Decinnamoyl-9-deacetyltaxchinin B**

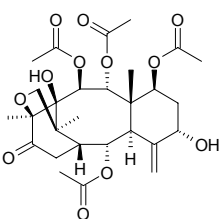
$C_{33}H_{42}O_{12}$  (630.70). Source: XI MA LA YA HONG DOU SHAN *Taxus*  
*wallichiana*. Ref: 662.

**4852 Decinnamoyl-1-hydroxy-taxinine J**

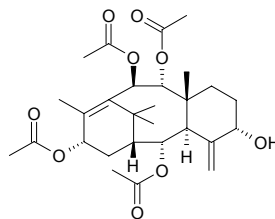
$C_{30}H_{42}O_{12}$  (594.66). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref:  
 662.

**4853 5 $\alpha$ -Decinnamoyltaxagifine**

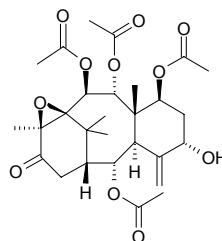
$C_{28}H_{38}O_{12}$  (566.61). Source: HONG DOU SHAN *Taxus chinensis*. Ref:  
 662.

**4854 Decinnamoyltaxinine E**

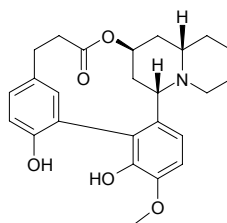
$C_{28}H_{40}O_9$  (520.63). Source: HONG DOU SHAN *Taxus chinensis*. Ref:  
 662.

**4855 Decinnamoyltaxinine B 11,12-oxide**

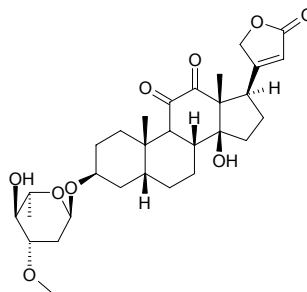
$C_{28}H_{38}O_{11}$  (550.61). Source: YUN NAN HONG DOU SHAN *Taxus*  
*yunnanensis*. Ref: 662.

**4856 Decodine**

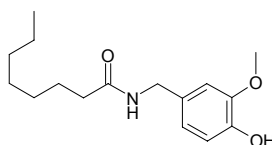
[26996-01-1]  $C_{25}H_{29}NO_5$  (423.51). mp 193~197°C. Source: ZI WEI YE  
*Lagerstroemia indica*. Ref: 6.

**4857 Decoside**

$C_{30}H_{42}O_9$  (546.66). Pharm: Toxin (vertebrate). Source: YANG JIAO AO  
 ZI *Strophanthus divaricatus*. Ref: 658.

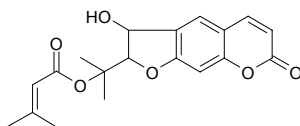
**4858 Decoyl vanillylamide**

$C_{16}H_{25}NO_3$  (279.38). Source: LA JIAO *Capsicum frutescens*. Ref: 6.

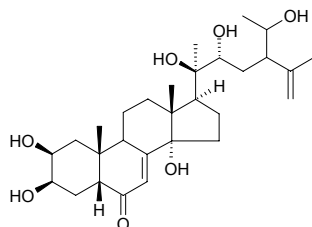


**4859 Decumbensol**

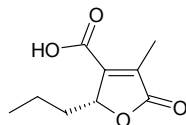
C<sub>19</sub>H<sub>20</sub>O<sub>6</sub> (344.37). Colorless massive crystals, mp 183~183.5°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = +202° (*c* = 0.53, CHCl<sub>3</sub>). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 9.

**4860 Decumbesterone A**

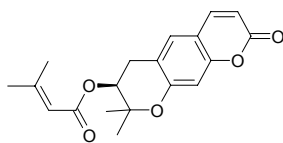
C<sub>29</sub>H<sub>46</sub>O<sub>7</sub> (506.69). Pharm: Antineoplastic (inhibits EBV-EA induction strongly). Source: BAI MAO XIA KU CAO *Ajuga decumbens*. Ref: 693.

**4861 Decumbic acid**

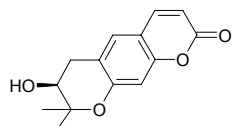
C<sub>9</sub>H<sub>12</sub>O<sub>4</sub> (184.19). mp 125~127°C, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +44.3° (*c* = 0.47, CHCl<sub>3</sub>). Source: *Lasiodiplodia theobromae* (fruit). Ref: 3867.

**4862 Decursin**

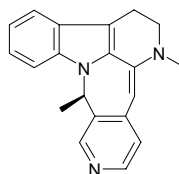
[5928-25-6] C<sub>19</sub>H<sub>20</sub>O<sub>5</sub> (328.37). mp 110~111°C. Pharm: AChE inhibitor (*in vitro*, IC<sub>50</sub> = 390 μmol/L)<sup>[3058]</sup>; reduces muscular twitching (cultured myocardial cells line). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], CHAO XIAN DANG GUI *Angelica gigas* (underground part)<sup>[3058]</sup>. Ref: 6, 658, 3058.

**4863 Decursinol**

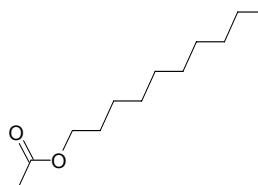
[23458-02-8] C<sub>14</sub>H<sub>14</sub>O<sub>4</sub> (246.27). mp 176~177°C. Pharm: AChE inhibitor (*in vitro*, IC<sub>50</sub> = 28 μmol/L)<sup>[3058]</sup>; reduces muscular twitching (cultured myocardial cells line). Source: DA TIAO WEN XIE HAO *Seseli grandivittatum*, MU<sup>(4)</sup> JU *Aegle marmelos*, QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*], CHAO XIAN DANG GUI *Angelica gigas* (underground part)<sup>[3058]</sup>. Ref: 6, 658, 3058.

**4864 Decussine**

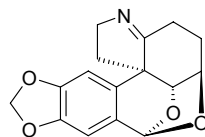
[75375-52-9] C<sub>20</sub>H<sub>19</sub>N<sub>3</sub> (301.39). Yellow rhomboid crystals (methanol), mp 203~205°C. Pharm: Neuromuscular blocker. Source: DUI SHENG MA QIAN *Strychnos decussata*. Ref: 661.

**4865 n-Decyl acetate**

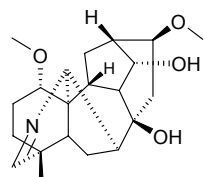
[112-17-4] C<sub>12</sub>H<sub>24</sub>O<sub>2</sub> (200.32). mp -15.05°C, bp 244°C. Source: HEI MA YI *Formica fusca*. Ref: 6.

**4866 4a,N-Dedihydronoraugustamine**

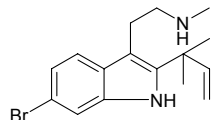
C<sub>16</sub>H<sub>15</sub>NO<sub>4</sub> (285.30). mp 127~130°C, [ $\alpha$ ]<sub>D</sub><sup>20</sup> = -242.6° (*c* = 0.27, MeOH). Pharm: Antiprotozoal inactive (*Plasmodium falciparum*, *Leishmania donovani*, *Trypanosoma brucei*, *Trypanosoma cruzi*). Source: KEN NI YA WEN SHU LAN *Crinum kirkii* (bulb). Ref: 3892.

**4867 N-Deethyl-N-19-didehydrosachaconitine**

C<sub>21</sub>H<sub>31</sub>NO<sub>4</sub> (361.49). Amorphous solid, [ $\alpha$ ]<sub>D</sub><sup>25</sup> = +181.8° (*c* = 0.11, CHCl<sub>3</sub>). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.

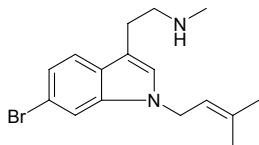
**4868 Deformylflustrabromine**

C<sub>16</sub>H<sub>21</sub>BrN<sub>2</sub> (321.26). Pharm: Affinity to nAChR ( $\alpha 4\beta 2^*$  subtype, *Ki* = (3400±500) nmol/L, control (-)-Nicotine, *Ki* = (0.838±0.132) nmol/L;  $\alpha 7^*$  subtype, *Ki* > 50000 nmol/L, (-)-Nicotine, *Ki* = (127±5) nmol/L). Source: BEI HAI XIAN TAI CHONG *Flustra foliacea*. Ref: 5029.



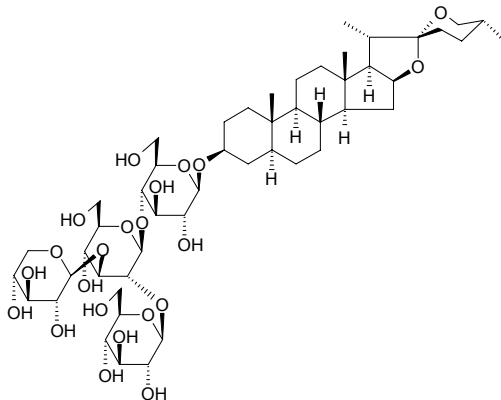
**4869 Deformylflustrabromine B**

$C_{16}H_{21}BrN_2$  (321.26). **Pharm:** Affinity to nAChR ( $\alpha 4\beta 2^*$  subtype,  $K_i > 50000$  nmol/L, control (–)-Nicotine,  $K_i = (0.838 \pm 0.132)$  nmol/L;  $\alpha 7^*$  subtype,  $K_i = (17000 \pm 2200)$  nmol/L, (–)-Nicotine,  $K_i = (127 \pm 5)$  nmol/L). **Source:** BEI HAI XIAN TAI CHONG *Flustra foliacea*. **Ref:** 5029.

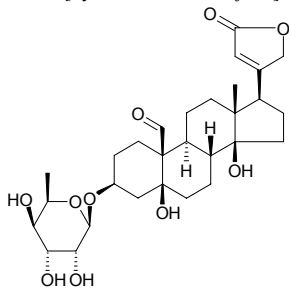
**4870 Degalactotigonin**

[39941-51-0]  $C_{50}H_{82}O_{22}$  (1035.20). **Pharm:** Antineoplastic (inhibits  $^{32}P$  combines with phospholipid in HeLa cells,  $50 \mu\text{g/mL}$ , InRt = 57.8%).

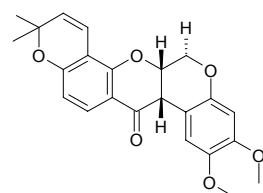
**Source:** ZHI MU *Anemarrhena asphodeloides*. **Ref:** 2, 1636.

**4871 Deglucocheirotxin**

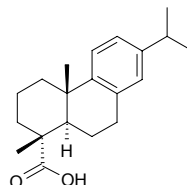
$C_{29}H_{42}O_{10}$  (550.65). mp 188–191°C. **Source:** LING LAN *Convallaria keiskei* [Syn. *Convallaria majalis*]. **Ref:** 6.

**4872 Deguelin**

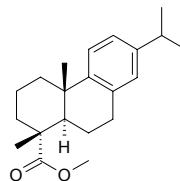
Degueline [522-17-8]  $C_{23}H_{22}O_6$  (394.43). Yellow crystals, mp 180–182°C (methanol); 171°C,  $[\alpha]_D^{20} = -107^\circ$  ( $c = 0.2$ , benzene). **Pharm:** Ornithine decarboxylase inhibitor (induced by ester phorbol,  $IC_{50} = 0.0003 \mu\text{g/mL}$ ); larvacide (larva of mosquito); nematocide (MLD =  $1 \mu\text{mol/L}$ ); anti-tumor promotor (*in vivo*, mouse skin tumor, inhibits TPA-induced EBV-EA activation, 100(mol ratio/32 pmol TPA), EBV-EA positive cells = 72.3% viability, positive control  $\beta$ -Carotene, EBV-EA positive cells = 82.7% viability)<sup>[4982]</sup>. **Source:** MU LAN<sup>(2)</sup> *Indigofera tinctoria*, HUI YE GEN *Tephrosia purpurea*, MAO YU TENG *Derris elliptica*, YU TENG *Derris trifoliata* (stem), *Tephrosia* sp., *Lonchocarpus* sp. **Ref:** 6, 900, 4982.

**4873 Dehydroabietic acid**

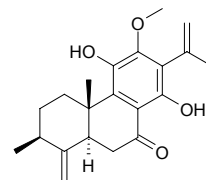
8,11,13-Abietatrien-18-oic acid [1740-19-8]  $C_{20}H_{28}O_2$  (300.44). Colorless acicular crystals, mp 174°C,  $[\alpha]_D^{20} = +66^\circ$  ( $c = 0.60$ , diethyl ether). **Pharm:** Activates nerve (stimulates release of neurotransmitter inhibitor ( $\gamma$ -aminobutyric acid) and neurotransmitter stimulant); antifungal (*in vitro*, *Pyricularia oryzae*, InRt = 100%); antiulcerative; used in treatment of hypertension and tachycardia caused by smoking; vasodilator. **Source:** XIAN MAI XIANG CHA CAI *Rabdosia nervosa*, LEI GONG TENG *Tripterygium wilfordii*. **Ref:** 900.

**4874 Dehydroabietic acid methyl ester**

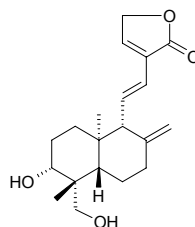
$C_{21}H_{30}O_2$  (314.47). **Pharm:** Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA=100%), viability of Raji cells = 60%; reference compound  $\beta$ -Carotene, relative percentage = 8.6%). **Source:** FU LING *Poria cocos* (sclerotium: yield = 0.0013%dw). **Ref:** 4616.

**4875 Dehydroagastol**

19(4→3)-Abeo-11,14-dihydroxy-12-methoxy-abieta-8,11,13,15-tetraen-7-one  $C_{21}H_{26}O_4$  (342.44). Yellow green acicular crystals, mp 159–161°C, soluble in hexane, chloroform and methanol. **Source:** GUANG HUO XIANG *Pogostemon cablin* [Syn. *Mentha cablin*]. **Ref:** 210, 660.

**4876 Dehydroandrographolide**

$C_{20}H_{28}O_4$  (332.44). Colorless acicular crystals (recrystallization in 30 and 50% ethanol), mp 204°C. **Pharm:** Anti-inflammatory; antipyretic; used in treatment of infectious diseases of respiratory tract and intestinal tract. **Source:** CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (dried aerial parts: content = 1.19%<sup>[5508]</sup>) **Ref:** 661, 5508.

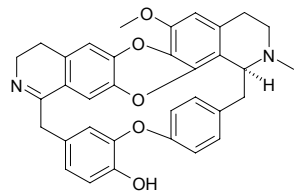




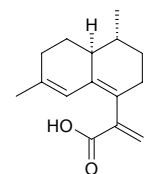
**4877 1,2-Dehydroapateline**

$C_{34}H_{30}N_2O_5$  (546.63). Yellow amorphous powder,  $[\alpha]_D^{25} = +128^\circ$  ( $c = 0.42$ , MeOH). **Pharm:** Exhibited *in vitro* anticholinesterase activities,  $IC_{50} = (116.5 \pm 2.5) \mu\text{mol/L}$ , control Galanthamine,  $IC_{50} = (0.5 \pm 0.0) \mu\text{mol/L}$ .

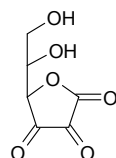
**Source:** CHUI MU FANG JI *Cocculus pendulus*. **Ref:** 4051.

**4878 6,7-Dehydroartemisinic acid**

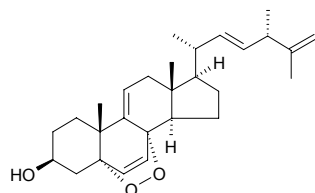
$C_{15}H_{20}O_2$  (232.33). **Source:** HUANG HUA HAO *Artemisia annua*. **Ref:** 2, 660.

**4879 Dehydroascorbic acid**

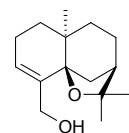
[490-83-5]  $C_6H_6O_6$  (174.11). mp  $196^\circ\text{C}$  (dec). **Source:** HUI XIANG JING *YE Foeniculum vulgare*, JIANG MANG *Cassia sophora*, MA BO *Lasiosphaera fenizlii*. **Ref:** 6.

**4880 9(11)-Dehydroaxinysterol**

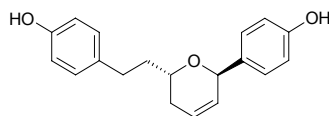
$C_{28}H_{40}O_3$  (424.63). White amorphous solid,  $[\alpha]_D^{25} = +78.9^\circ$  ( $c = 0.89$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (Breast: HBC4  $IC_{50} = 0.85 \mu\text{g/mL}$ ; BSY1  $IC_{50} = 0.60 \mu\text{g/mL}$ ; HBC5  $IC_{50} = 0.96 \mu\text{g/mL}$ ; MCF7  $IC_{50} = 0.36 \mu\text{g/mL}$ ; MDA-MB-231  $IC_{50} = 1.26 \mu\text{g/mL}$ ; Lung: NCI-H23  $IC_{50} = 0.54 \mu\text{g/mL}$ ; NCI-H226  $IC_{50} = 0.63 \mu\text{g/mL}$ ; NCI-H522  $IC_{50} = 0.57 \mu\text{g/mL}$ ; NCI-H460  $IC_{50} = 0.81 \mu\text{g/mL}$ ; A549  $IC_{50} = 0.96 \mu\text{g/mL}$ ; DMS273  $IC_{50} = 0.54 \mu\text{g/mL}$ ; DMS114  $IC_{50} = 0.48 \mu\text{g/mL}$ ; Stomach: St4  $IC_{50} = 0.69 \mu\text{g/mL}$ ; MKN1  $IC_{50} = 0.42 \mu\text{g/mL}$ ; MKN7  $IC_{50} = 0.48 \mu\text{g/mL}$ ; MKN28  $IC_{50} = 0.84 \mu\text{g/mL}$ ; MKN45  $IC_{50} = 0.54 \mu\text{g/mL}$ ; MKN74  $IC_{50} = 0.54 \mu\text{g/mL}$ ; Kidney: RXF-631L  $IC_{50} = 0.72 \mu\text{g/mL}$ ; ACHN  $IC_{50} = 0.51 \mu\text{g/mL}$ ; Colon: HCC2998  $IC_{50} = 0.57 \mu\text{g/mL}$ ; KM12  $IC_{50} = 0.60 \mu\text{g/mL}$ ; HT29  $IC_{50} = 0.57 \mu\text{g/mL}$ ; HCT15  $IC_{50} = 0.75 \mu\text{g/mL}$ ; HCT116  $IC_{50} = 0.48 \mu\text{g/mL}$ ; Ovary: OVCAR-3  $IC_{50} = 0.19 \mu\text{g/mL}$ ; OVCAR-4  $IC_{50} = 0.60 \mu\text{g/mL}$ ; OVCAR-5  $IC_{50} = 0.54 \mu\text{g/mL}$ ; OVCAR-8  $IC_{50} = 0.22 \mu\text{g/mL}$ ; SK-OV-3  $IC_{50} = 0.81 \mu\text{g/mL}$ ; CNS: U251  $IC_{50} = 0.63 \mu\text{g/mL}$ ; SF268  $IC_{50} = 1.02 \mu\text{g/mL}$ ; SF295  $IC_{50} = 0.75 \mu\text{g/mL}$ ; SF539  $IC_{50} = 0.84 \mu\text{g/mL}$ ; SNB75  $IC_{50} = 2.16 \mu\text{g/mL}$ ; SNB78  $IC_{50} = 1.17 \mu\text{g/mL}$ ; Prostate: DU145  $IC_{50} = 0.54 \mu\text{g/mL}$ ; PC3  $IC_{50} = 0.57 \mu\text{g/mL}$ ; Melanoma: LOX-IMVI  $IC_{50} = 0.60 \mu\text{g/mL}$ ). **Source:** Sponge *Axinyssa* sp. **Ref:** 4231.

**4881 Dehydrobaimuxinol**

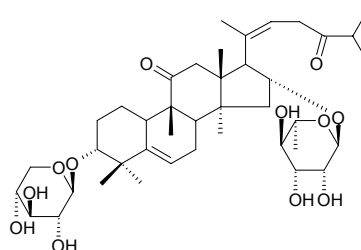
[105013-74-9]  $C_{15}H_{24}O_2$  (236.36). Colorless acicular crystals, mp  $136\sim 138^\circ\text{C}$ ,  $[\alpha]_D^{26} = +25^\circ$  ( $c = 1.6$ , chloroform). **Source:** BAI MU XIANG *Aquilaria sinensis*. **Ref:** 13, 58.

**4882 (3S,7R)-5,6-Dehydro-1,7-bis(4-hydroxyphenyl)-4'-de-O-methylcentrolobine**

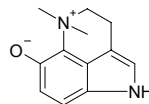
$C_{19}H_{20}O_3$  (286.37). Colorless amorphous solid,  $[\alpha]_D^{25} = -12.3^\circ$  ( $c = 0.335$ , MeOH). **Pharm:** Cytotoxic (Colon26-L5,  $ED_{50} = 71.2 \mu\text{mol/L}$ , control 5-FU,  $ED_{50} = 0.53 \mu\text{mol/L}$ ; HT1080,  $ED_{50} = 45.3 \mu\text{mol/L}$ , 5-FU,  $ED_{50} = 8.0 \mu\text{mol/L}$ ). **Source:** YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000071% dw). **Ref:** 3048.

**4883 Dehydrobryogenin glycoside**

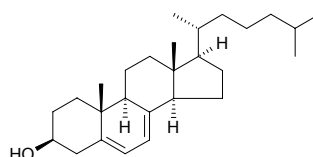
11,24-Dioxo-5,21-dien-cucuebit-3 $\alpha$ -O- $\beta$ -D-xylopyranosyl-16 $\alpha$ -O- $\alpha$ -L-rhamnopyranoside  $C_{41}H_{64}O_{12}$  (748.96). White amorphous powder,  $[\alpha]_D^{28} = 0^\circ$  ( $c = 0.176$ , MeOH). **Source:** KU XUAN SHEN *Picria feltriae* (whole herb). **Ref:** 4853.

**4884 Dehydrobufotenine**

[17232-69-8]  $C_{12}H_{14}N_2O$  (202.26). **Source:** CHAN SU *Bufo bufo gargarizans*; *Bufo melanostictus*. **Ref:** 2.

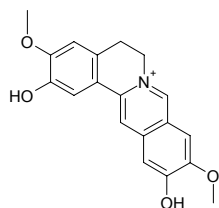
**4885 7-Dehydrocholesterol**

[434-16-2]  $C_{27}H_{44}O$  (384.65). mp  $142\sim 143^\circ\text{C}$ ;  $150^\circ\text{C}$ . **Source:** SHUI LONG GU *Polypodium niponicum*. **Ref:** 6.

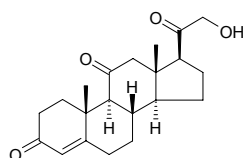


**4886 Dehydrocoreximine (perchlorate)**

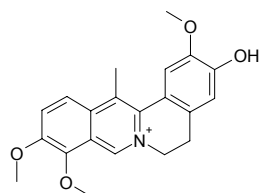
2,3,10,11-Substituted pseudoprotoberberine alkaloid  $C_{19}H_{18}NO_4^+$  (324.36). Pale yellow crystalline solid, mp 243~247°C. Source: XIAO HUA MU BAN SHU *Xylopiya parviflora* (bark and root). Ref: 3794.

**4887 11-Dehydrocorticosterone**

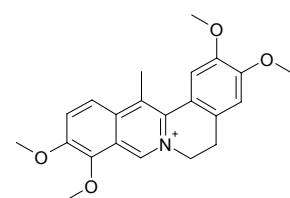
[72-23-1]  $C_{21}H_{28}O_4$  (344.45). mp 183.0~183.5°C. Source: NIU SHEN *Bos taurus domesticus*; *Bubalus bubalis*, ZI HE CHE *Homo sapiens*. Ref: 6.

**4888 Dehydrocorybulbine**

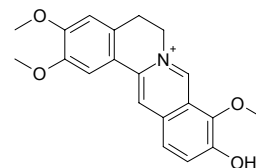
$C_{21}H_{22}NO_4^+$  (352.41). Source: YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 2.

**4889 Dehydrocorydaline**

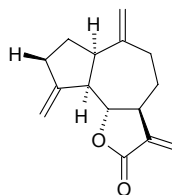
[30045-16-0]  $C_{22}H_{24}NO_4^+$  (366.44). Pharm: Antiulcerative (rat, sc, gastric ulcer); coronary vasodilator; increases coronary flow; inhibits gastric secretion; increases tolerance to anoxia (mus); used in treatment of coronary heart disease (main effective component in *Corydalis yanhusuo* YAN HU SUO). Source: CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.025%<sup>[5508]</sup>), DONG BEI YAN HU SUO *Corydalis ambigua* var. *amurensis* [Syn. *Corydalis ambigua*], DUI YE YUAN HU *Corydalis ledebouriana* (rhizome: content = 0.032%<sup>[5508]</sup>), HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.069%<sup>[5508]</sup>), XI SHEN SHAN ZI JIN *Corydalis pallida* var. *tenuis*, YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*] (rhizome: mean content of 5 origins = 0.152%<sup>[5508]</sup>). Ref: 2, 658, 5508.

**4890 Dehydrocorydalmine**

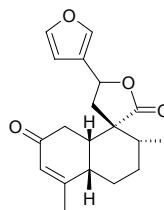
[6877-27-6]  $C_{20}H_{20}NO_4^+$  (338.39). Source: CHANG JU YAN HU SUO *Corydalis longicalcarata* (rhizome: content = 0.208%<sup>[5508]</sup>), HUI LV YAN HU SUO *Corydalis adunca* (rhizome: content = 0.122%<sup>[5508]</sup>), YAN HU SUO *Corydalis yanhusuo* [Syn. *Corydalis turtschaninovii* f. *yanhusuo*]. Ref: 6, 5508.

**4891 Dehydrocostuslactone**

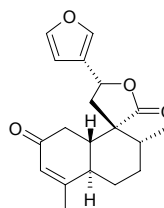
$C_{15}H_{18}O_2$  (230.31). mp 60.5°C. Pharm: Plant growth regulator; antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, MLC = 6.3μmol/L; anti-inflammatory (NO production inhibitor)<sup>[4415]</sup>; cytotoxic (*in vitro*, HepG2,  $CD_{50}$  = 3.5μg/mL; HeLa,  $CD_{50}$  = 3.5μg/mL; OVCAR-3,  $CD_{50}$  = 2.5μg/mL; control Cisplatin, HepG2,  $CD_{50}$  = 2.8μg/mL; HeLa,  $CD_{50}$  = 5.2μg/mL; OVCAR-3,  $CD_{50}$  = 3μg/mL; without significant antibacterial effect)<sup>[4720]</sup>. Source: CHUAN MU XIANG *Vladimiria souliei* [Syn. *Jurinea souliei*] (root: content scope of 4 origins = 0.482%~1.620%, mean content of = 1.29%<sup>[5508]</sup>), MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*] (root: mean content of 10 origins = 1.83%<sup>[5508]</sup>, yield = 0.019%dw<sup>[4720]</sup>), YUE GUI YE *Laurus nobilis*, YUE XI MU XIANG *Vladimiria denticulata*. Ref: 2, 6, 658, 660, 4248, 4415, 4720, 5508.

**4892 cis-Dehydrocrotonin**

$C_{19}H_{22}O_4$  (314.38). Source: GE LUN BI YA BA DOU *Croton schiedeana*. Ref: 4552.

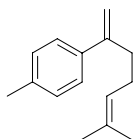
**4893 trans-Dehydrocrotonin**

$C_{19}H_{22}O_4$  (314.38). Pharm: Antiulcerogenic<sup>[5351]</sup>, cytotoxic (HL-60 cells, MTT assay, 24h,  $IC_{50}$  = 300μmol/L, 96h,  $IC_{50}$  = 180μmol/L, control Myricetin, 24h,  $IC_{50}$  = 192μmol/L; protein quantification, 24h,  $IC_{50}$  = 500μmol/L, 96h,  $IC_{50}$  = 150μmol/L, control Myricetin, 24h,  $IC_{50}$  = 300μmol/L). Source: KA ZHU BA DOU *Croton cajucara*. Ref: 5351.

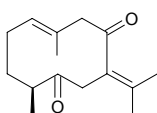


**4894 Dehydro- $\alpha$ -curcumene**

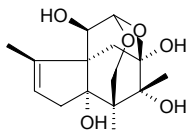
[4999-58-0] C<sub>15</sub>H<sub>20</sub> (200.33). Source: CE BAI ZHI JIE *Thuja orientalis* [Syn. *Platycladus orientalis*; *Biota orientalis*]. Ref: 6.

**4895 Dehydrocurdione**

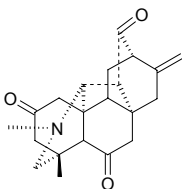
[38230-32-9] C<sub>15</sub>H<sub>22</sub>O<sub>2</sub> (234.34). Pharm: NO production inhibitor inactive (mus peritoneal macrophages, induced by LPS, 100μmol/L, InRt = (12.8±3.1)%, control *L*-NMMA, 100μmol/L, InRt = (79.2±0.9)%, *p*<0.01)<sup>[4150]</sup>. Source: PING E SHU *Curcuma zedoaria* [Syn. *Curcuma aeruginosa*], JIANG HUANG *Curcuma longa*. Ref: 6, 640, 4150.

**4896 1,2-Dehydrocycloparvifloralone**

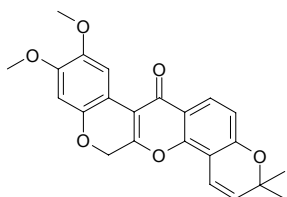
C<sub>15</sub>H<sub>22</sub>O<sub>6</sub> (298.34). Colorless amorphous powder, [α]<sub>D</sub><sup>22</sup> = +14° (*c* = 1.77, CH<sub>3</sub>OH). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1-10μmol/L). Source: *Illicium merrillianum* (pericarp: yield = 0.00038%dw). Ref: 3046.

**4897 Dehydrodeacetylheterophylloidine**

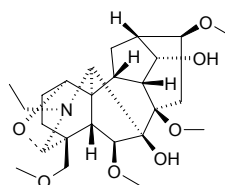
C<sub>21</sub>H<sub>25</sub>NO<sub>3</sub> (339.44). Amorphous, [α]<sub>D</sub><sup>25</sup> = -73.3° (*c* = 0.17, CHCl<sub>3</sub>). Source: WU ZHU FEI YAN CAO *Delphinium pentagynum* (aerial parts). Ref: 3831.

**4898 Dehydrodeguelin**

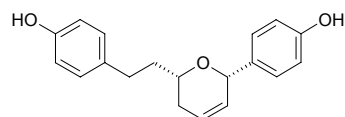
6 $\alpha$ ,12 $\alpha$ -Dehydrodeguelin [3466-23-7] C<sub>23</sub>H<sub>20</sub>O<sub>6</sub> (392.41). Straw yellow solid, mp 215~225°C. Pharm: cAMP phosphodiesterase inhibitor (rat heart, IC<sub>50</sub> = 6.2μmol/L); larvacide (larva of mosquito); nematocide (*in vitro*, 0.1μg/mL, larva of *Toxocara canis*, after 6 hours cultivation, RM = 30, after 24 hours, RM = 0). Source: MU LAN<sup>(2)</sup> *Indigofera tinctoria*, HUI YE GEN *Tephrosia purpurea*. Ref: 946, 1138, 1188.

**4899 Dehydrodeltatsine**

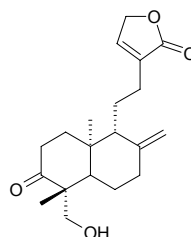
C<sub>25</sub>H<sub>39</sub>NO<sub>7</sub> (465.59). Amorphous solid, [α]<sub>D</sub><sup>25</sup> = +20° (*c* = 0.1, CHCl<sub>3</sub>). Source: DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts). Ref: 4283.

**4900 (3*S*,7*S*)-5,6-Dehydro-4''-de-*O*-methylcentrolobine**

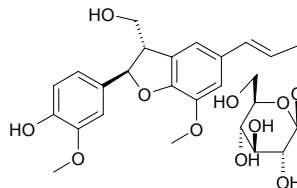
C<sub>19</sub>H<sub>20</sub>O<sub>3</sub> (286.37). Pharm: Cytotoxic (Colon26-L5, ED<sub>50</sub> > 100μmol/L, control 5-FU, ED<sub>50</sub> = 0.53μmol/L; HT1080, ED<sub>50</sub> = 79.4μmol/L, 5-FU, ED<sub>50</sub> = 8.0μmol/L). Source: YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.000014%dw). Ref: 3048.

**4901 3-Dehydrodeoxyandrographolide**

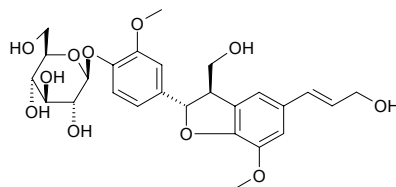
C<sub>20</sub>H<sub>28</sub>O<sub>4</sub> (332.44). Colorless lamellar crystals (MeOH), mp 140~142°C. Source: CHUAN XIN LIAN *Andrographis paniculata* [Syn. *Justicia paniculata*] (leaf). Ref: 4913.

**4902 (7*R*,8*S*)Dehydrodiconifery alcohol-9'-*O*- $\beta$ -*D*-glucoside**

C<sub>26</sub>H<sub>32</sub>O<sub>11</sub> (520.54). Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*. Ref: 2448.

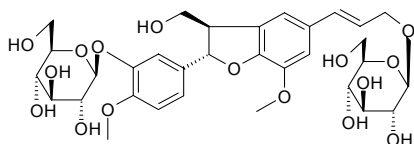
**4903 (7*S*,8*R*)Dehydrodiconifery alcohol-4-*O*- $\beta$ -*D*-glucoside**

[107870-88-2] C<sub>26</sub>H<sub>32</sub>O<sub>11</sub> (520.54). White powder, [α]<sub>D</sub><sup>21</sup> = -45.8° (*c* = 0.9, MeOH). Source: GUAN HUA ROU CONG RONG *Cistanche tubulosa*, MAO JIAN QIU LUO *Lychnis coronaria*. Ref: 2189, 2448.

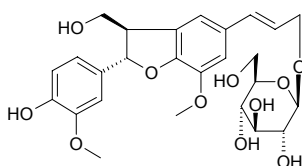


**4904 Dehydrodiconiferyl alcohol 4,γ'-di-O-β-D-glucopyranoside**

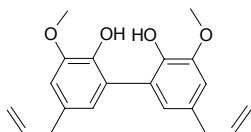
[109792-90-7] C<sub>32</sub>H<sub>42</sub>O<sub>16</sub> (682.68). Source: DU ZHONG *Eucommia ulmoides*. Ref: 2.

**4905 (7S,8R) Dehydrodiconiferyl alcohol 9'-β-glucopyranoside**

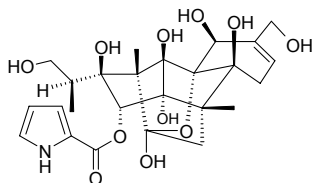
C<sub>26</sub>H<sub>32</sub>O<sub>11</sub> (520.54). Pale yellow amorphous powder, [α]<sub>D</sub><sup>15</sup> = -19.5° (c = 0.4, CHCl<sub>3</sub>). Source: SUO YANG *Cynomorium songaricum* (stem). Ref: 4114.

**4906 Dehydrodieugenol**

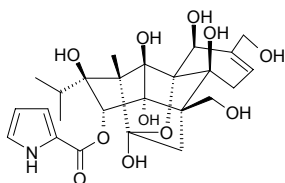
[4433-08-3] C<sub>20</sub>H<sub>22</sub>O<sub>4</sub> (326.40). Pharm: Antifungal (using extract of bark of *Litsea turfosa*). Source: NI ZHAO MU JIANG ZI *Litsea turfosa*. Ref: 658.

**4907 (13S)-8,9-Dehydro-18,21-dihydroxy-10-epi-ryanodine**

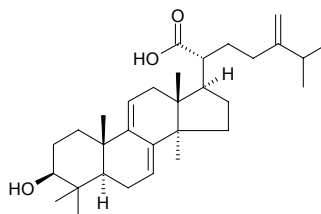
C<sub>25</sub>H<sub>33</sub>NO<sub>11</sub> (523.54). Crystals (CHCl<sub>3</sub>:MeOH = 1:1), mp 162°C, [α]<sub>D</sub> = +7° (c = 0.2). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**4908 8,9-Dehydro-20,21-dihydroxy-10-epi-ryanodine**

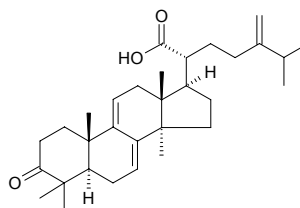
C<sub>25</sub>H<sub>33</sub>NO<sub>11</sub> (523.54). Crystals (CHCl<sub>3</sub>:MeOH = 1:1), mp 173°C, [α]<sub>D</sub> = +6° (c = 0.2). Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

**4909 Dehydroeburicoic acid**

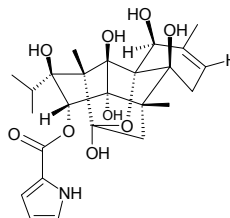
3β-Hydroxy-24-methylene-lanosta-7,9(11)-dien-21-oic acid [6879-05-6] C<sub>31</sub>H<sub>48</sub>O<sub>3</sub> (468.73). mp 286~288°C. Source: A LI HONG *Fomes officinalis*, FU LING *Poria cocos*. Ref: 6, 660.

**4910 Dehydroeburiconic acid**

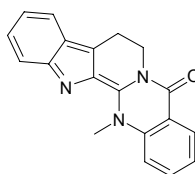
[18449-25-7] C<sub>31</sub>H<sub>46</sub>O<sub>3</sub> (466.71). mp 240~242°C. Source: A LI HONG *Fomes officinalis*. Ref: 6.

**4911 8,9-Dehydro-10-epi-ryanodine**

C<sub>25</sub>H<sub>33</sub>NO<sub>9</sub> (491.54). Crystals (CHCl<sub>3</sub>:Me<sub>2</sub>CO = 1:1), mp 165°C, [α]<sub>D</sub> = +20° (c = 0.1). Pharm: Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force, EC<sub>50</sub> = 17 nmol/L)<sup>[5139]</sup>. Source: QU CHONG CAO *Spigelia anthelmia* (aerial parts). Ref: 5139.

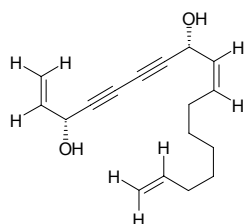
**4912 Dehydroevodiamine**

C<sub>19</sub>H<sub>15</sub>N<sub>3</sub>O (301.35). Pharm: Uterine stimulant (rat, *in vitro*); slows heart rate (anesthetic rat); antihypertensive (anesthetic rat). Source: WU ZHU YU *Evodia rutaecarpa* (dried unripe fruit). Ref: 5031, 5501.

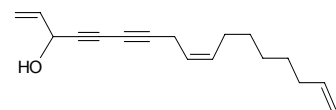


**4913 3*R*,8*R*-Dehydrofalcariindiol**

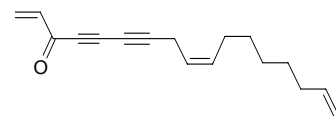
$C_{17}H_{22}O_2$  (258.36). Pale yellow oil,  $[\alpha]_D^{25} = +39.8^\circ$  ( $c = 2.66$ ,  $CHCl_3$ ). **Pharm:** 12-Lipoxygenase inhibitor inactive (10  $\mu$ g/mL, InRt = 0%; 30  $\mu$ g/mL, InRt = 0%; control Baicalein, 10  $\mu$ g/mL, InRt = 56.23%); cytotoxic (*in vitro*, MTT assay: LS174T colorectal cancer,  $IC_{50} = (14.8 \pm 7.2) \mu$ g/mL, control Doxorubicin,  $IC_{50} = (324 \pm 100) \text{ ng/mL}$ ; SKCO1 colorectal cancer,  $IC_{50} = (13.3 \pm 5.4) \mu$ g/mL, Doxorubicin,  $IC_{50} = (28.5 \pm 10) \text{ ng/mL}$ ; COLO320DM colorectal cancer,  $IC_{50} = 9.6 \mu$ g/mL, Doxorubicin  $IC_{50} = (1163 \pm 168) \text{ ng/mL}$ ; WIDr colorectal cancer,  $IC_{50} = 10.9 \mu$ g/mL; MDA231 breast cancer,  $IC_{50} = 37.6 \mu$ g/mL; MCF7 breast cancer,  $IC_{50} = 5.8 \mu$ g/mL). **Source:** DAN ZI HAO *Artemisia monosperma*. **Ref:** 5249.

**4914 Dehydrofalcarinol**

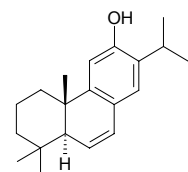
[36150-08-0]  $C_{17}H_{22}O$  (242.36). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**4915 Dehydrofalcarinone**

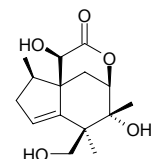
[4117-05-9]  $C_{17}H_{20}O$  (240.35). **Source:** YIN CHEN HAO *Artemisia capillaris*. **Ref:** 2.

**4916  $\Delta^6$ -Dehydroferruginol**

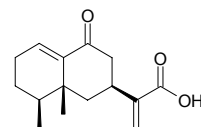
$C_{20}H_{28}O$  (284.45). **Pharm:** 12(*S*)-LOX inhibitor inactive (hmn Platelets, 100  $\mu$ g/mL, 12(*S*)-HETE Production inhibitor inactive)<sup>[4980]</sup>. **Source:** DU SONG SHI *Juniperus rigida*, OU ZHOU CI BAI *Juniperus communis* (wood). **Ref:** 6, 4980.

**4917 3,4-Dehydrofloridanolide**

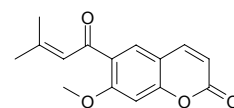
$C_{15}H_{22}O_5$  (282.34). Colorless amorphous,  $[\alpha]_D^{20} = +44^\circ$  ( $c = 1.90$ ,  $CHCl_3$ ). **Source:** *Illicium merrillianum* (pericarp). **Ref:** 5113.

**4918 Dehydroflourensic acid**

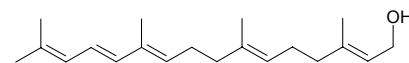
$C_{15}H_{20}O_3$  (248.32). Oil. **Pharm:** Phytotoxin (inhibits radicle growth, *Amaranthus hypochondriacus*,  $IC_{50} = 196 \mu$ mol/L, control 2,4-D,  $IC_{50} = 180 \mu$ mol/L; *Echinochloa crusgalli*,  $IC_{50} = 620 \mu$ mol/L, control 2,4-D,  $IC_{50} = 230 \mu$ mol/L); CaM interactor (cAMP phosphodiesterase inhibitor,  $IC_{50} = 23.2 \mu$ mol/L, control Chlorpromazine,  $IC_{50} = 10.2 \mu$ mol/L, interacted with bovine-brain calmodulin and inhibited the activation of the calmodulin-dependent enzyme cAMP phosphodiesterase). **Source:** FU CHUI FE LAO JU *Flourensia cernua*. **Ref:** 3433.

**4919 Dehydrogeijerin**

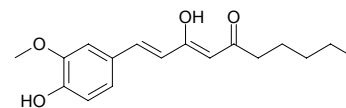
[16850-91-2]  $C_{15}H_{14}O_4$  (258.28). mp 132°C. **Source:** YAN JIAO CAO *Boenninghausenia albiflora*. **Ref:** 2495.

**4920 12,13-Dehydrogeranylgeraniol**

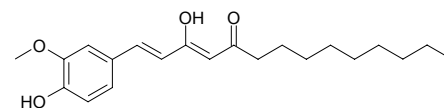
$C_{20}H_{32}O$  (288.48). Clear oil. **Pharm:** Antioxidant (HL-60, PMA-induced peroxide-catalyzed oxidation of 2',7'-dichlorodihydrofluorescein dye (DCFH) by reactive oxygen species (ROS), 5  $\mu$ g/mL (17.4  $\mu$ mol/L), InRt = 28%)<sup>[3060]</sup>. **Source:** MEI ZHOU SAN BAI CAO *Saururus cernuus* (stem and leaf), SHUANG CHA ZAO *Bifurcaria bifurcata*. **Ref:** 3060, 5146.

**4921 6-Dehydrogingerdione**

[76060-35-0]  $C_{17}H_{22}O_4$  (290.36). **Pharm:** Anti-inflammatory (prostaglandin biosynthesis inhibitor,  $IC_{50} = 2.3 \mu$ mol/L); anti-diarrheal (mus, orl, 10mg/kg, inhibits 5-HT-induced diarrhea and loss of body temperature); antihepatotoxin (rat liver cells, *in vitro*, 1.0mg/mL, liver toxicosis induced by  $CCl_4$ , GPT =  $(70 \pm 2)\%$  of that of control,  $p < 0.001$ ); prostaglandin synthetase inhibitor ( $IC_{50} = 1.0 \mu$ mol/L). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2, 1815, 1816, 1817, 1820.

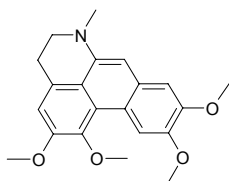
**4922 10-Dehydrogingerdione**

[82206-04-0]  $C_{21}H_{30}O_4$  (346.47). **Pharm:** Anti-inflammatory (prostaglandin biosynthesis inhibitor,  $IC_{50} = 1.0 \mu$ mol/L); antihepatotoxin (rat liver cells, *in vitro*, 1.0mg/mL, liver toxicosis induced by  $CCl_4$ , GPT =  $(80 \pm 1)\%$  of that of control,  $p < 0.01$ ). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 2, 1815, 1817.

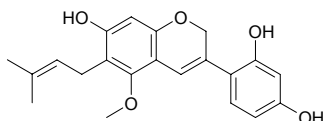


**4923 Dehydroglaucine**

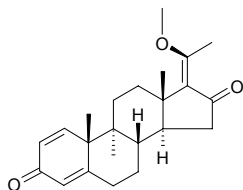
[22212-26-6]  $C_{21}H_{23}NO_4$  (353.42). Yellow lamellar crystals, mp 121~122°C. **Pharm:** Antibacterial (*Staphylococcus aureus*, *Bacillus subtilis*, and *Mycobacterium smegmatis*, MIC = 25µg/mL); antifungal (*Candida albicans*, MIC = 25µg/mL; *Saccharomyces cerevisiae*, MIC = 50µg/mL). **Source:** BEI MEI E ZHANG QIU *Liriodendron tulipifera*, HUANG HAI YING SU *Glaucium flavum*. **Ref:** 661.

**4924 Dehydroglyasperin C**

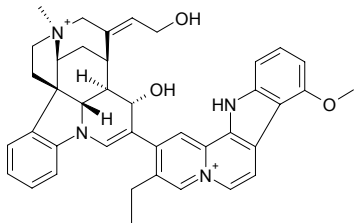
$C_{21}H_{22}O_5$  (354.41). **Source:** CU MAO GAN CAO *Glycyrrhiza aspera*. **Ref:** 2431.

**4925 Dehydroguggulsterone M**

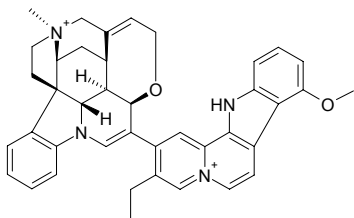
$C_{22}H_{28}O_3$  (340.47). Amorphous powder,  $[\alpha]_D^{25} = +36.5^\circ$  ( $c = 0.76$ , MeOH). **Source:** A MAN SU DAN MO YAO *Commiphora wightii*. **Ref:** 2062.

**4926 5',6'-Dehydroguaiachrysine**

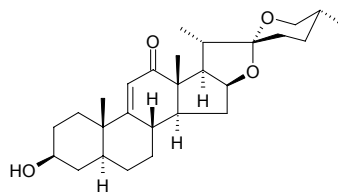
$C_{40}H_{42}N_4O_3^{+2}$  (626.81). Orange-brown colored amorphous powder. **Pharm:** Neuromuscular toxicity (neuromuscular transmission inhibitor,  $IC_{50} = 21.5\mu\text{mol/L}$ ; Venezuelan calabash curare,  $IC_{50} = 6.5\mu\text{mol/L}$ ). **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 5202.

**4927 5',6'-Dehydroguiaflavine**

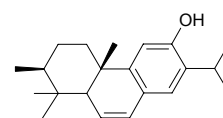
$C_{40}H_{40}N_4O_2^{+2}$  (608.79). Orange-brown colored amorphous powder. **Pharm:** Neuromuscular toxicity (neuromuscular transmission inhibitor,  $IC_{50} = 24\mu\text{mol/L}$ ; Venezuelan calabash curare,  $IC_{50} = 6.5\mu\text{mol/L}$ ). **Source:** *Strychnos guianensis* (stem cortex). **Ref:** 5202.

**4928 9(11)-Dehydrohecogenin**

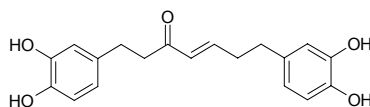
$C_{27}H_{40}O_4$  (428.62). mp 230~232°C. **Source:** FAN MA *Agave americana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], *Agave deserti*. **Ref:** 2503.

**4929 6-Dehydrohinokiol**

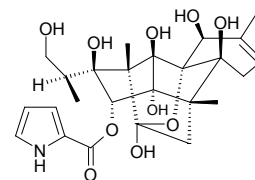
$C_{21}H_{30}O$  (298.47). **Source:** TAI WAN SHAN *Taiwania cryptomerioides*. **Ref:** 2526.

**4930 Dehydrohirsutanonol**

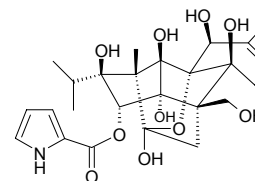
1,7-Di-(3',4'-dihydroxyphenyl)-4-hepten-3-one  $C_{19}H_{20}O_5$  (328.37). Syrupy solid. **Pharm:** Antioxidant (superoxide radical scavenger,  $IC_{50} = 1.2\mu\text{mol/L}$ ; DPPH scavenger,  $IC_{50} = 2.4\mu\text{mol/L}$ )<sup>[4535]</sup>; cytotoxic (TK10,  $GI_{50} = 6.8\mu\text{g/mL}$ , control Etoposide,  $GI_{50} = 8.1\mu\text{g/mL}$ ; MCF7,  $GI_{50} = 1.9\mu\text{g/mL}$ , Etoposide,  $GI_{50} = 0.33\mu\text{g/mL}$ ; UACC62,  $GI_{50} = 4.8\mu\text{g/mL}$ , Etoposide,  $GI_{50} = 0.97\mu\text{g/mL}$ )<sup>[5195]</sup>. **Source:** CHI YANG *Alnus japonica* (leaf), SHI ZI XING HU JI SHENG *Viscum cruciatum* (aerial parts). **Ref:** 4535, 5195.

**4931 (13S)-8,9-Dehydro-18-hydroxy-10-epi-ryanodine**

$C_{25}H_{33}NO_{10}$  (507.54). Crystals ( $CHCl_3$ : $Me_2CO = 3:1$ ), mp 168°C,  $[\alpha]_D^{25} = +11^\circ$  ( $c = 0.2$ ). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force,  $EC_{50} = 1500\text{nmol/L}$ ). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

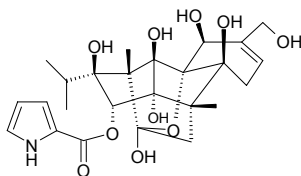
**4932 8,9-Dehydro-20-hydroxy-10-epi-ryanodine**

$C_{25}H_{33}NO_{10}$  (507.54). Crystals ( $CHCl_3$ : $Me_2CO = 3:1$ ), mp 148°C,  $[\alpha]_D^{25} = +14^\circ$  ( $c = 0.2$ ). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force,  $EC_{50} = 440\text{nmol/L}$ ). **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

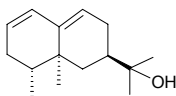


**4933 8,9-Dehydro-21-hydroxy-10-epi-ryanodine**

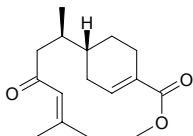
$C_{25}H_{33}NO_{10}$  (507.54). Crystals ( $CHCl_3:Me_2CO = 3:1$ ), mp 178°C,  $[\alpha]_D = +25^\circ$  ( $c = 1.0$ ). **Pharm:** Cardiac contraction inhibitor (guinea-pig papillary muscle, causes a prolongation of the latency time and decrease of contraction force,  $EC_{50} = 1900\text{nmol/L}$ )<sup>[5139]</sup>. **Source:** QU CHONG CAO *Spigelia anthelmia* (aerial parts). **Ref:** 5139.

**4934 Dehydrojinkoheremol**

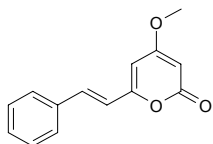
$C_{15}H_{24}O$  (220.36). **Source:** CHEN XIANG *Aquilaria agallocha*. **Ref:** 13.

**4935 Dehydrojuvabione**

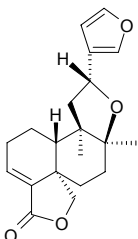
$C_{16}H_{24}O_3$  (264.37). **Pharm:** Insect juvenile hormone. **Source:** XIANG ZHI LENG SHAN *Abies balsamea*. **Ref:** 658.

**4936 5,6-Dehydrokawain**

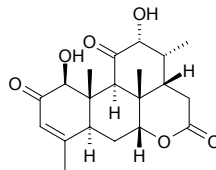
[15345-89-8]  $C_{14}H_{12}O_3$  (228.25). **Pharm:** Anticonvulsant; local anesthetic; cytotoxic inactive (Colon26-L5, HT1080,  $100\mu\text{mol/L}$ )<sup>[3042]</sup>. **Source:** DA CAO KOU *Alpinia speciosa*, DIAO ZHANG GEN PI *Lindera umbellata* [Syn. *Lindera erythrocarpa*], KA WA HU JIAO *Piper methysticum*, YUN NAN CAO KOU *Alpinia blepharocalyx* (seed: yield = 0.00390%)<sup>[3042]</sup>. **Ref:** 658, 3042.

**4937 Dehydrokerlin**

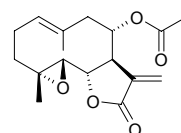
$C_{20}H_{24}O_4$  (328.41). **Source:** DUO SUI SHU WEI CAO *Salvia polystachya* (aerial parts). **Ref:** 3901.

**4938 11-Dehydroklaineaneone**

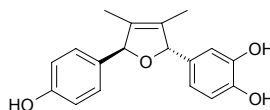
$C_{20}H_{26}O_6$  (362.43). **Pharm:** Plant growth inhibitor (Cucumber seedling, root growth,  $IC_{50} = (55.6 \pm 1.0)\mu\text{mol/L}$ , shoot growth,  $IC_{50} = (77.3 \pm 1.0)\mu\text{mol/L}$ ; Rice seedling, root growth,  $IC_{50} > 200\mu\text{mol/L}$ , shoot growth,  $IC_{50} > 200\mu\text{mol/L}$ ). **Source:** CHANG YE KUAN MU *Eurycoma longifolia* (leaf). **Ref:** 5215.

**4939 11,13-Dehydrolanuginolide**

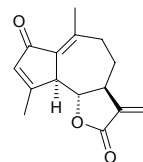
$C_{17}H_{22}O_5$  (306.36). Colorless acicular crystals (ether), mp 167°C (dec),  $[\alpha]_D = -96.5^\circ$  ( $c = 0.74$ ,  $CHCl_3$ ). **Pharm:** Cytotoxic (KB,  $ED_{50} = 1.8\mu\text{g/mL}$ ). **Source:** NAN YA HAN XIAO *Michelia doltsopa*. **Ref:** 661.

**4940 3,4-Dehydrolarreatricin**

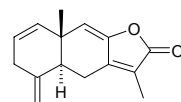
Dehydrolarreatricin  $C_{18}H_{18}O_4$  (298.34). **Pharm:** Antioxidant (Takamatsu DCFH method, myelomonocytic HL-60 cells,  $IC_{50} > 62.5\mu\text{g/mL}$ ; control NDGA,  $IC_{50} = (0.7 \pm 0.3)\mu\text{g/mL}$ , Vitamin C,  $IC_{50} = (1.9 \pm 0.7)\mu\text{g/mL}$ , Trolox,  $IC_{50} = (1.4 \pm 0.5)\mu\text{g/mL}$ )<sup>[3850]</sup>; cytotoxic (XTT assay, HL-60 cells,  $IC_{50} = (27.6 \pm 0.4)\mu\text{g/mL}$ ; control NDGA,  $IC_{50} = (2.6 \pm 0.2)\mu\text{g/mL}$ , Vitamin C,  $IC_{50} > 10.0\mu\text{g/mL}$ , Trolox,  $IC_{50} > 10.0\mu\text{g/mL}$ )<sup>[3850]</sup>. **Source:** SAN CHI LA RUI A *Larrea tridentata* (leaf). **Ref:** 1521, 3850.

**4941 Dehydroleucodin**

Mesatlantin E [36150-07-9]  $C_{15}H_{16}O_3$  (244.29). mp 131°C (diethyl ether-petroleum ether),  $[\alpha]_{589\text{nm}}^{22} = +77^\circ$ ,  $[\alpha]_{578\text{nm}}^{22} = +81^\circ$ ,  $[\alpha]_{546\text{nm}}^{22} = +92^\circ$ ,  $[\alpha]_{430\text{nm}}^{22} = +155^\circ$  ( $c = 2.5$ , chloroform). **Pharm:** Antiulcerative (rat and mus, stomach/duodenum mucous membrane damage caused by EtOH); cytotoxic (KB ATCC CCL17,  $IC_{50} = 1.3\mu\text{g/mL}$ )<sup>[5399]</sup>. **Source:** YAN XIANG JU *Chrysanthemum lavandulifolium*, YI KUA *Artemisia myriantha* (aerial parts)<sup>[4618]</sup>, *Warionia saharae*. **Ref:** 900, 4618, 5399.

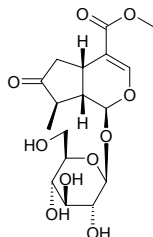
**4942 Dehydrolindestrenolide**

[32810-35-8]  $C_{15}H_{16}O_2$  (228.29). mp 111~113°C. **Source:** WU YAO *Lindera strychnifolia* [Syn. *Lindera aggregata*]. **Ref:** 6.

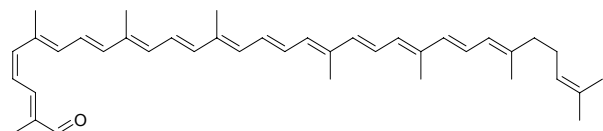


**4943 Dehydrologanin**

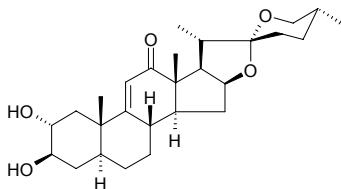
Ketologanin [152-91-0]  $C_{17}H_{24}O_{10}$  (388.37). Source: CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], MA QIAN ZI *Strychnos nux-vomica*, SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (fruit: yield = 0.00022%dw)<sup>[9]</sup>. Ref: 2, 9, 639, 660.

**4944 3,4-Dehydrolycopen-16-al**

$C_{40}H_{52}O$  (548.86). Source: QIAN NIAN BU LAN XIN *Solanum dulcamara*. Ref: 6.

**4945 9(11)-Dehydromanogenin**

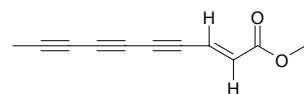
$C_{27}H_{40}O_5$  (444.62). mp 240°C. Source: FAN MA *Agave americana*, WU CI FAN MA *Agave americana* var. *marginata* [Syn. *Agave americana* var. *variegata*], *Agave deserti*. Ref: 2503.

**4946 Dehydromatricaria ester**

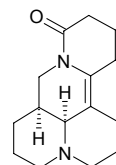
Methyl-*cis*-2-decen-4,6,8-trienoate [2739-57-3]  $C_{11}H_{18}O_2$  (172.19). mp 114~115°C. Source: AI YE *Artemisia argyi*, QI ZHOU YI ZHI HAO *Conyza canadensis* [Syn. *Erigeron canadensis*]. Ref: 6.

**4947 trans-Dehydromatricaria ester**

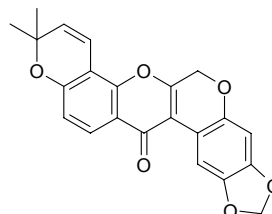
Methyl-*trans*-2-decene-4,6,8-trienoate [692-94-4]  $C_{11}H_{18}O_2$  (172.19). mp 105°C. Source: BI MA GEN *Ricinus communis*, DA YE BAI TOU WENG *Anaphalis margaritacea*. Ref: 6.

**4948 7,11-Dehydromatrine**

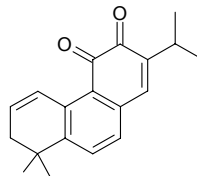
[46862-63-9]  $C_{15}H_{22}N_2O$  (246.36). Source: KU SHEN *Sophora flavescens* [Syn. *Sophora angustifolia*]. Ref: 2.

**4949 6α,12α-Dehydromillettone**

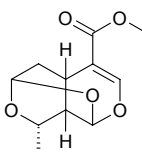
$C_{22}H_{16}O_6$  (376.37). Yellow crystals, mp>300°C. Pharm: Antimalarial (antiplasmodial, chloroquine-resistant W2 strain of *Plasmodium falciparum*,  $IC_{50}$  = 33.3 μmol/L, control Chloroquine,  $IC_{50}$  = 0.094 μmol/L, control Quinine,  $IC_{50}$  = 0.209 μmol/L; chloroquine-sensitive D6 strain of *Plasmodium falciparum*,  $IC_{50}$  = 39.1 μmol/L, control Chloroquine,  $IC_{50}$  = 0.009 μmol/L, control Quinine,  $IC_{50}$  = 0.044 μmol/L). Source: *Millettia usaramensis* ssp. *usaramensis*. Ref: 3454.

**4950 Dehydromiltirone**

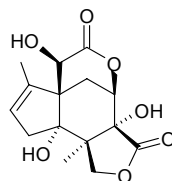
$\Delta^1$ -Dehydromiltirone  $C_{19}H_{20}O_2$  (280.37). Red acicular crystals, mp 45~46°C; red oleaginous substance. Source: HONG GEN CAO *Salvia prionitis*, DAN SHEN *Salvia miltiorrhiza*. Ref: 102, 116.

**4951 Dehydromorroniaglycone**

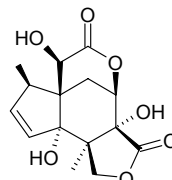
$C_{11}H_{14}O_5$  (226.23). White crystals, mp 119~120°C,  $[\alpha]_D^{21}$  = -47.17° ( $c$  = 0.053, EtOH). Source: SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*] (fruit: yield = 0.00044%dw)<sup>[9]</sup>. Ref: 9, 479, 5502.

**4952 1,2-Dehydroneomajucin**

$C_{15}H_{18}O_7$  (310.31). Amorphous solid,  $[\alpha]_D^{20}$  = -7.8° ( $c$  = 0.16, EtOH). Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp: yield = 0.00013%dw). Ref: 4621.

**4953 2,3-Dehydroneomajucin**

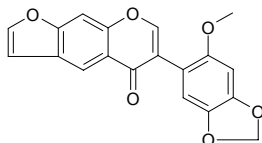
$C_{15}H_{18}O_7$  (310.31). Source: JIA DI FENG PI *Illicium jiadifengpi* (pericarp). Ref: 4621.



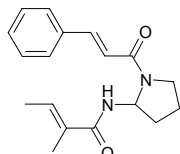


**4954 Dehydroneotenone**

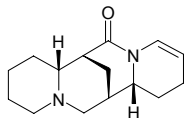
C<sub>19</sub>H<sub>12</sub>O<sub>6</sub> (336.30). Source: DI GUA ZI *Pachyrhizus erosus*. Ref: 4180.

**4955 Dehydoodorine**

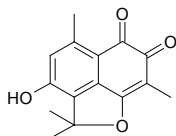
C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub> (298.39). Source: DA YE SHU LAN *Aglaia elliptifolia* (leaf: yield = 0.00104%dw). Ref: 3031.

**4956 (+)-2,3-Dehydro-10-oxo-α-isosparteine**

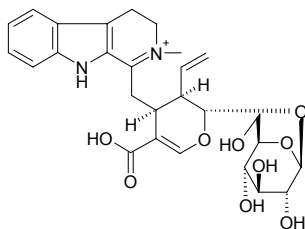
C<sub>15</sub>H<sub>22</sub>N<sub>2</sub>O (246.36). Colorless needles, mp 98~103°, [α]<sub>D</sub><sup>26</sup> = +132° (c = 0.6, EtOH). Source: FA GUO JIN QUE ER *Cytisus monspessulanus*. Ref: 1943.

**4957 Dehydrooxoperezine**

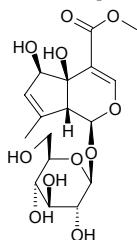
C<sub>15</sub>H<sub>14</sub>O<sub>4</sub> (258.28). Orange needles (CHCl<sub>3</sub>/CH<sub>3</sub>OH), mp > 280°C. Pharm: Anti-HIV (*in vitro*, acutely infected H-9 lymphocyte cells, IC<sub>50</sub> = 25.1 μg/mL, EC<sub>50</sub> = 17.5 μg/mL, TI = 1.43); cytotoxic inactive (*in vitro*, MCF7 and A549). Source: GUAN MU TONG *Aristolochia manshuriensis* (stem: yield = 0.00069%). Ref: 4706.

**4958 3,4-Dehydropalicoside**

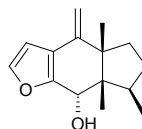
C<sub>27</sub>H<sub>33</sub>N<sub>2</sub>O<sub>9</sub><sup>+</sup> (529.57). Amorphous powder, [α]<sub>D</sub><sup>25</sup> = -27° (c = 0.175, MeOH). Source: *Strychnos vanprukii* (stem). Ref: 3471.

**4959 7,8-Dehydropenstemoside**

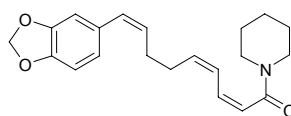
C<sub>17</sub>H<sub>24</sub>O<sub>11</sub> (404.37). Colorless powder, mp 119~120°C. Source: DU YI WEI *Lamiophlomis rotata* [Syn. *Phlomis rotata*]. Ref: 381.

**4960 Dehydropinguisenol**

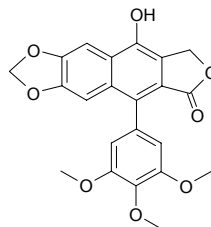
C<sub>15</sub>H<sub>20</sub>O<sub>2</sub> (232.33). Source: YE TAI *Trocholejeunea sandvicensis*. Ref: 3909.

**4961 Dehydropipernonaline**

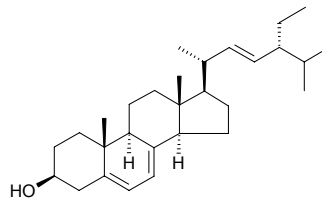
C<sub>21</sub>H<sub>25</sub>NO<sub>3</sub> (339.44). Colorless crystals. Pharm: Protective gastric lesions (rat, ethanol-induced, 25mg/kg orl, length = (50.6±14.2)mm, control, length = (118.6±16.2)mm, InRt = 57.3%; indomethacin-induced in rats, dose, 25mg/kg orl, length = (34.1±11.0)mm, control, length = (89.5±9.8)mm, InRt = 61.9%). Source: *Piper chaba* (fruit). Ref: 4935.

**4962 Dehydropodophyllotoxin**

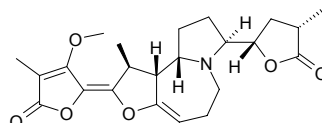
C<sub>22</sub>H<sub>18</sub>O<sub>8</sub> (410.38). mp 275~276°C. Source: GUI JIU *Dysosma versipellis* [Syn. *Podophyllum versipelle*], LIU JIAO LIAN *Dysosma pleiantha* [Syn. *Podophyllum pleianthum*] (rhizome: content = 0.019%)<sup>[5508]</sup>, SHAN HE YE *Diphylleia grayi*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*] (rhizome: mean content of 2 origins = 0.037%)<sup>[5508]</sup>, WO ER QI *Diphylleia sinensis* (rhizome: mean content of 4 origins = 0.072%)<sup>[5508]</sup>. Ref: 6, 279, 5508.

**4963 7-Dehydroporiferasterol**

Corbisterol [19432-13-4] C<sub>29</sub>H<sub>46</sub>O (410.69). Pharm: Anti-inflammatory (inflammation caused by TPA in mus, 1mg/ear, InRt = 85%, ID<sub>50</sub> = 0.5mg/ear). Source: YAN CAO *Nicotiana tabacum*. Ref: 900.

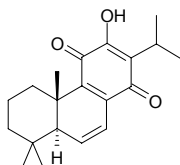
**4964 Dehydroprotostemonine**

C<sub>23</sub>H<sub>29</sub>NO<sub>6</sub> (415.49). Amorphous, [α]<sub>D</sub><sup>20</sup> = +72° (c = 0.3, MeOH). Pharm: Insecticidal (neonate larvae of *Spodoptera littoralis*, LC<sub>50</sub> = 6.1mg/L, EC<sub>50</sub> = 0.8mg/L). Source: DI TANG BAI BU *Stemona kerrii*, *Stemona curtisii*. Ref: 3409.

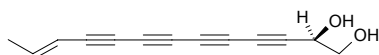


**4965 6,7-Dehydroroyleanone**

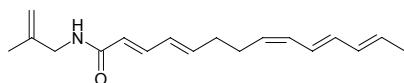
$C_{20}H_{26}O_3$  (314.43). Red crystals, mp 160~164°C. Source: XIU QIU SHU WEI CAO *Salvia hydrangea* (root). Ref: 5447.

**4966 Dehydrosafynol**

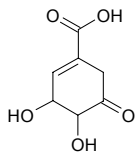
$C_{13}H_{10}O_2$  (198.22). Pharm: Plant antitoxin. Source: HONG HUA *Carthamus tinctorius*. Ref: 658.

**4967 Dehydro-γ-sanshool**

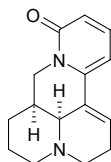
$C_{18}H_{25}NO$  (271.41). Pharm: Anti-PAF. Source: *Zanthoxylum* sp. Ref: 2176.

**4968 Dehydroschikimic acid**

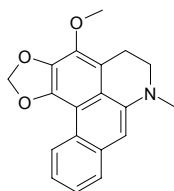
$C_7H_8O_5$  (172.14). mp 150~152°C; 201~202°C. Source: HE ZI *Terminalia chebula*, HE ZI YE *Terminalia chebula*. Ref: 6.

**4969 Δ<sup>7</sup>-Dehydrosophoramine**

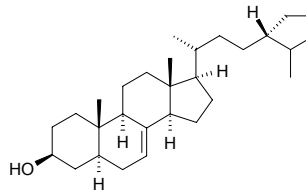
[67767-18-4]  $C_{15}H_{18}N_2O$  (242.32). Source: HUANG BAI *Phellodendron amurense*. Ref: 2.

**4970 Dehydrostephalagine**

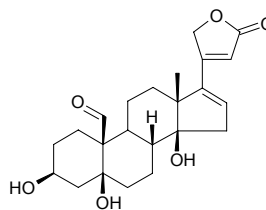
$C_{19}H_{17}NO_3$  (307.35). Pharm: Cytotoxic inactive (yeast assay: RS321NYCp50(gal), RS321NpRAD52(gal), RS321NpRAD52(glu)). Source: DING KE LA QIAN JIN TENG *Stephania dinklagei* (stem). Ref: 5457.

**4971 7-Dehydrostigmasterol**

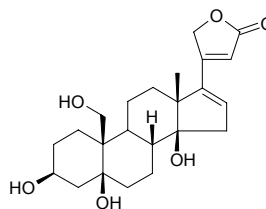
$C_{29}H_{50}O$  (414.72). Source: HUANG BAI *Phellodendron amurense*. Ref: 2.

**4972 16-Dehydrostrophanthidin**

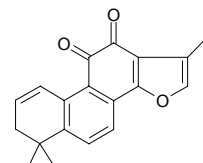
$C_{23}H_{30}O_6$  (402.49). mp 226°C; 253~262°C,  $[\alpha]_D = +82.3^\circ$ . Source: HEI GANG LIU *Periploca nigrescens*. Ref: 1521, 2498.

**4973 16-Dehydrostrophanthidol**

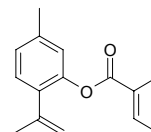
$C_{23}H_{32}O_6$  (404.51). mp 242~247°C,  $[\alpha]_D = 68.9^\circ$ . Source: HEI GANG LIU *Periploca nigrescens*. Ref: 1521, 2498.

**4974 Δ<sup>1</sup>-Dehydrotanshinone**

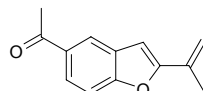
$C_{19}H_{16}O_3$  (292.34). Dark red acicular crystals, mp 147~148°C. Source: DAN SHEN *Salvia miltiorrhiza*. Ref: 116.

**4975 8,9-Dehydrothymol 3-O-tiglate**

$C_{15}H_{18}O_2$  (230.31). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

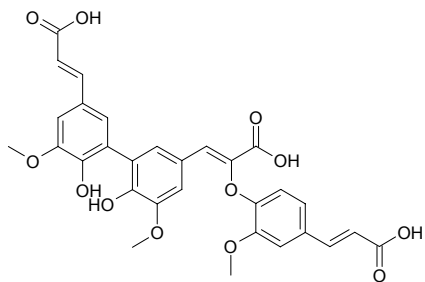
**4976 Dehydrotremetone**

[3015-20-1]  $C_{13}H_{12}O_2$  (200.24). Pharm: Antibacterial; fish toxin (goldfish). Source: QIAN MA YE ZE LAN *Eupatorium urticaefolium*. Ref: 658.

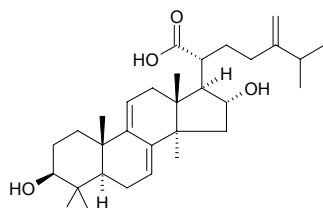


**4977 4-O-8',5'-5''-Dehydrotriferulic acid**

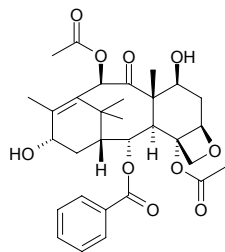
$C_{30}H_{26}O_{12}$  (578.53). Source: YU MI FU *Zea mays* (bran). Ref: 3420.

**4978 Dehydrotumulolic acid**

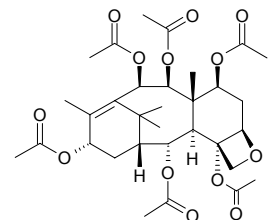
$C_{31}H_{48}O_4$  (484.73). Pharm: Antineoplastic (EBV-EA induced by TPA, mol ratio/TPA = 1000, relative percentage of EBV-EA = 0% (positive control value 32pmol, 20ng TPA = 100%), viability of Raji cells = 70%; reference compound  $\beta$ -Carotene, relative percentage = 8.6%). Source: FU LING *Poria cocos* (sclerotium; yield = 0.00084%dw). Ref: 4616.

**4979 1-Dehydroxybaccatin III**

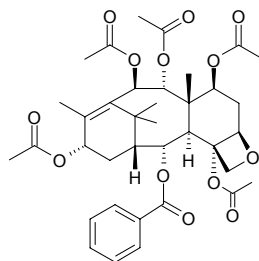
$C_{31}H_{38}O_{10}$  (570.64). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**4980 1 $\beta$ -Dehydroxybaccatin IV**

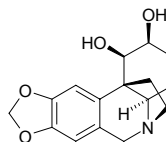
$C_{32}H_{44}O_{13}$  (636.70). Colorless prisms,  $[\alpha]_D = +5^\circ$  (CHCl<sub>3</sub>), mp 286°C, mp 259~260°C,  $[\alpha]_D = +99^\circ$  (CHCl<sub>3</sub>). Pharm: NO production inhibitor (IC<sub>50</sub> = 32.2  $\mu$ mol/L, control L-NMMA, IC<sub>50</sub> = 28.5  $\mu$ mol/L)<sup>[5407]</sup>. Source: HONG DOU SHAN *Taxus chinensis*, JIE ZHI HONG DOU SHAN *Taxus media*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). Ref: 662, 2488, 5407.

**4981 1 $\beta$ -Dehydroxybaccatin VI**

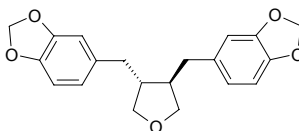
$C_{37}H_{46}O_{13}$  (698.77). Colorless crystals, mp 220~221°C,  $[\alpha]_D = -21.2^\circ$  (CHCl<sub>3</sub>). Source: JIE ZHI HONG DOU SHAN *Taxus media*, MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 139, 662.

**4982 4 $\alpha$ -Dehydroxycrinamabine**

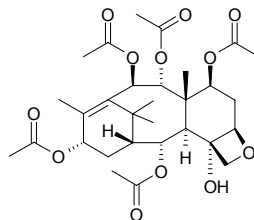
$C_{16}H_{19}NO_4$  (289.33). Pharm: Antitrypanosomal (*Trypanosoma brucei rhodesiense* strain STIB-900, stage trypomastigotes, IC<sub>50</sub> = 11.07  $\mu$ g/mL); antimalarial inactive (*Plasmodium falciparum* strain NF-54, stage IEF). Source: GUAN MU WEN SHU LAN *Crinum macowanii* (bulb). Ref: 4000.

**4983 Dehydroxycubebin**

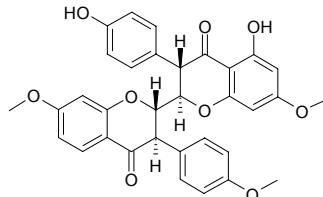
$C_{20}H_{30}O_5$  (340.38). Source: QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (aerial parts; yield = 0.000034%dw). Ref: 4783.

**4984 1 $\beta$ -Dehydroxy-4 $\alpha$ -deacetyl baccatin IV**

$C_{30}H_{42}O_{12}$  (594.66). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

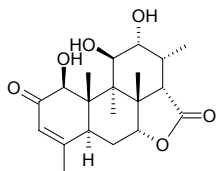
**4985 Dehydroxyhexaspermone C**

*rel*-4',7-Dimethoxy-4-oxo-2,3-*trans*-isoflavanyl-(2 $\rightarrow$ 2'')-4'',5''-dihydroxy-7''-methoxy-2'',3''-*trans*-isoflavanone  $C_{33}H_{28}O_9$  (568.59). White or colorless solid, mp 133~135°C,  $[\alpha]_D^{23.7} = -117.0^\circ$  ( $c = 0.05$ , MeOH). Pharm: Antibacterial inactive (MDR *Staphylococcus aureus*: RN4220 strain, 64  $\mu$ g/mL, control Erythromycin, MIC = 128  $\mu$ g/mL; XU212 strain, 64  $\mu$ g/mL, control Tetracycline, MIC = 128  $\mu$ g/mL; SA-1199-B strain, 64  $\mu$ g/mL, control Norfloxacin, MIC = 32  $\mu$ g/mL). Source: CHANG E JIN LIAN MU PI *Ochna macrocalyx*. Ref: 5372.

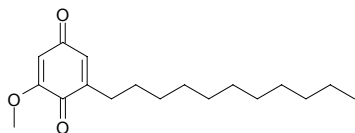


**4986 6-Dehydroxylongilactone**

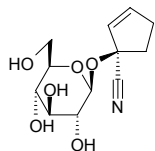
6-Dehydroxylongilactone  $C_{19}H_{26}O_6$  (350.42). Pharm: Cytotoxic ( $P_{388}$ ,  $IC_{50}$  = 0.66  $\mu\text{g/mL}$ , A549 cells, remarkable activity, MCF7 cells,  $IC_{50}$  < 2.5  $\mu\text{g/mL}$ )<sup>[4556]</sup>; plant growth inhibitor (Cucumber seedling, root growth,  $IC_{50}$  = (25.7 $\pm$ 0.5)  $\mu\text{mol/L}$ , shoot growth,  $IC_{50}$  = (48.6 $\pm$ 0.5)  $\mu\text{mol/L}$ ; Rice seedling, root growth,  $IC_{50}$  > 200  $\mu\text{mol/L}$ , shoot growth,  $IC_{50}$  > 200  $\mu\text{mol/L}$ )<sup>[5215]</sup>. Source: CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. Ref: 4556, 5215.

**4987 2-Dehydroxy-5-O-methylembelin**

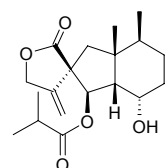
$C_{18}H_{28}O_3$  (292.42). Pharm: Cytotoxic inactive (*in vitro*, HL-60,  $IC_{50}$  > 100  $\mu\text{g/mL}$ ; Bel7402,  $IC_{50}$  > 100  $\mu\text{g/mL}$ ; HeLa,  $IC_{50}$  > 100  $\mu\text{g/mL}$ ; U937,  $IC_{50}$  > 100  $\mu\text{g/mL}$ ; control Colchicine, HL-60,  $IC_{50}$  = 1.6  $\mu\text{g/mL}$ ; Bel7402,  $IC_{50}$  = 0.4  $\mu\text{g/mL}$ ; HeLa,  $IC_{50}$  = 0.1  $\mu\text{g/mL}$ ; U937,  $IC_{50}$  = 0.1  $\mu\text{g/mL}$ )<sup>[4746]</sup>. Source: LA ZHU GUO *Aegiceras corniculatum* (stem and twig: yield = 0.00005%). Ref: 4746.

**4988 Deidaclin**

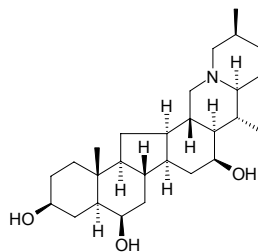
$C_{12}H_{17}NO_6$  (198.22). Pharm: Toxin. Source: GE YANG XI FAN LIAN *Passiflora coriacea*. Ref: 658.

**4989 Deisobutyryl bakkenolide H**

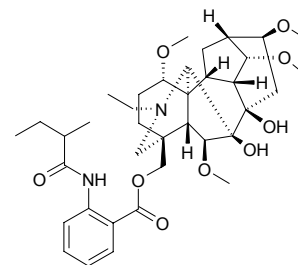
$C_{19}H_{28}O_5$  (336.45). Colorless needles (MeOH), mp 178–180°C,  $[\alpha]_D = -93.0^\circ$  ( $c$  = 0.365, MeOH). Pharm: Platelet aggregation inhibitor (100  $\mu\text{mol/L}$  AA-induced, 100  $\mu\text{g/mL}$ , InRt = (91.7 $\pm$ 6.8)%,  $p$  < 0.001, control Aspirin, 50  $\mu\text{g/mL}$ , InRt = (100 $\pm$ 0.0)%; 10  $\mu\text{g/mL}$  collagen-induced, 100  $\mu\text{g/mL}$ , InRt = (85.5 $\pm$ 13.0)%,  $p$  < 0.001, Aspirin, 50  $\mu\text{g/mL}$ , InRt = (12.2 $\pm$ 1.7)%; 2 nmol/L PAF-induced, 100  $\mu\text{g/mL}$ , InRt = (21.0 $\pm$ 1.7)%,  $p$  < 0.001, Aspirin, 50  $\mu\text{g/mL}$ , InRt = (9.6 $\pm$ 1.2)%; 0.1  $\mu\text{g/mL}$  thrombin-induced, 100  $\mu\text{g/mL}$ , InRt = (-1.1 $\pm$ 1.1)%). Source: TAI WAN FENG DOU CAI *Petasites formosanus*. Ref: 2377.

**4990 Delafrine**

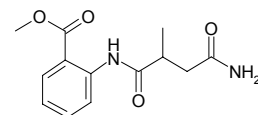
$C_{27}H_{45}NO_3$  (431.66). Source: XI BEI MU *Fritillaria imperialis* (bulb). Ref: 4217.

**4991 Delajacine**

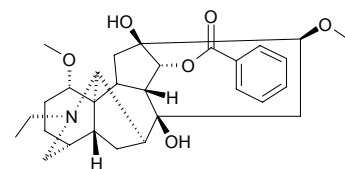
$C_{37}H_{54}N_2O_9$  (670.85). White amorphous powder. Source: QIN LING CUI QUE HUA *Delphinium giraldii*. Ref: 2506.

**4992 Delamide**

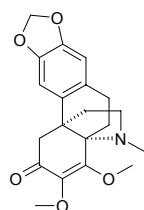
$C_{13}H_{16}N_2O_4$  (274.28). Source: FU ZI *Aconitum carmichaeli*. Ref: 16.

**4993 Delavaconitine**

[1356-52-1]  $C_{29}H_{39}NO_6$  (497.64). mp 59–64°C,  $[\alpha]_D^{17} = -9.56^\circ$ ; nitrate: mp 154°C; perchlorate: mp 241°C; picrolonate: mp 241°C; chloraurate: mp 215°C. Pharm: Analgesic; local anesthetic; LD (rbt, iv) = 5–10 mg/kg, (dog, iv) = 10–12 mg/kg; LD<sub>50</sub> (mus, sc) = 106 mg/kg, (mus, iv) = 28 mg/kg. Source: MA ER SHAN WU TOU *Aconitum delavayi*. Ref: 661.

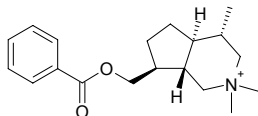
**4994 Delavaine**

[27989-72-6]  $C_{20}H_{23}NO_5$  (357.41). mp 140–150°C. Source: DI BU RONG *Stephania delavayi* [Syn. *Stephania epigaea*]. Ref: 1521.

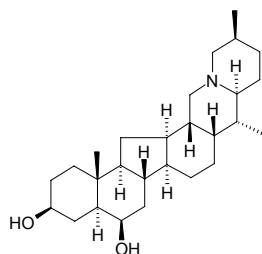


**4995 Delavayine A**

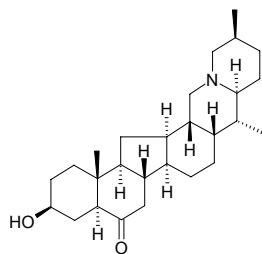
$C_{19}H_{28}NO_2$  (302.44). Yellow powder,  $[\alpha]_D^{22} = -5.1^\circ$  ( $c = 0.90$ ,  $C_5H_5N$ ). **Pharm:** Antinociceptive (acetic acid-induced, 50mg/kg, sc, inhibitive percent = 45%; control Aminopyrine, 50mg/kg, orl, inhibitive percent = 87%, 50mg/kg, sc, inhibitive percent = 94%). **Source:** MA TONG HUA *Incarvillea arguta*. **Ref:** 3908.

**4996 Delavine**

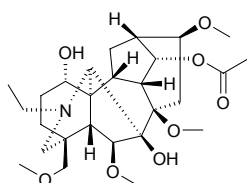
[98243-57-3]  $C_{27}H_{45}NO_2$  (415.67). Colorless needles (EtOH), mp 179~182°C (dec),  $[\alpha]_D^{25} = -17.2^\circ$  ( $c = 0.5$ ,  $CHCl_3$ ). **Pharm:** cAMP phosphodiesterase inhibitor ( $IC_{50} = 88\mu\text{mol/L}$ ); AChE inhibitor ( $IC_{50} = (105.5 \pm 1.5)\mu\text{mol/L}$ , control Eserine,  $IC_{50} = (0.41 \pm 0.01)\mu\text{mol/L}$ )<sup>[4217]</sup>, butyrylcholinesterase (BChE) inhibitor ( $IC_{50} = (1.71 \pm 0.11)\mu\text{mol/L}$ , control Eserine,  $IC_{50} = (0.857 \pm 0.008)\mu\text{mol/L}$ )<sup>[4217]</sup>. **Source:** LENG SHA BEI MU *Fritillaria delavayi*, XI BEI MU *Fritillaria imperialis* (bulb). **Ref:** 2, 660, 1755, 4217.

**4997 Delavinone**

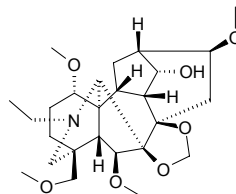
[96997-98-7]  $C_{27}H_{43}NO_2$  (413.65). **Source:** LENG SHA BEI MU *Fritillaria delavayi*, GAN SU BEI MU *Fritillaria przewalskii*. **Ref:** 2, 660.

**4998 Delbonine**

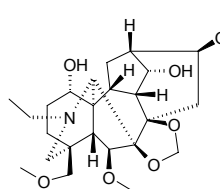
[95066-33-4]  $C_{27}H_{43}NO_8$  (509.65). Amorphous solid,  $[\alpha]_D^{25} = +35.3^\circ$  ( $c = 0.8$ ,  $CHCl_3$ ). **Source:** CHUAN QIAN CUI QUE HUA *Delphinium bonvalotii*, DONG FANG FEI YAN CAO *Consolida orientalis* (aerial parts). **Ref:** 1521, 4283.

**4999 Delbruline**

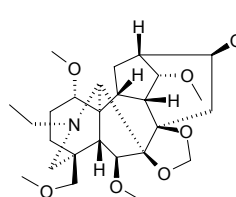
[106982-82-5]  $C_{26}H_{41}NO_7$  (479.62). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5000 Delbrunine**

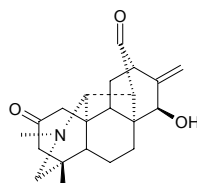
[106982-83-6]  $C_{25}H_{39}NO_7$  (465.59). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5001 Delbrusine**

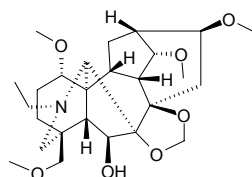
[76971-31-8]  $C_{27}H_{43}NO_7$  (493.65). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5002 Delcarduchol**

$C_{21}H_{27}NO_3$  (341.45). **Source:** *Delphinium carduchorum*. **Ref:** 2288.

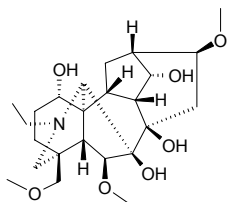
**5003 Delcorine**

[52358-55-1]  $C_{26}H_{41}NO_7$  (479.62). **Pharm:** Inhibits intestinal contraction (rat and rbt, *in vitro*); inhibits respiration; uterine relaxant (gpg); antihypertensive. **Source:** GUANG FEI YAN CAO *Delphinium corumbosum*. **Ref:** 658.

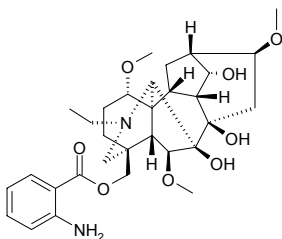


**5004 Delcosine**

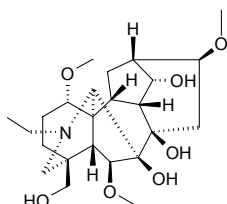
Delphamine [545-56-2]  $C_{24}H_{39}NO_7$  (453.58). mp 203~204°C. **Pharm:** Antihypertensive (anesthetic, cat, 10mg/kg); toxin (poikilotherms). **Source:** FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], QIANG GU FEI YAN CAO *Delphinium consolida*, XIAO CAO WU *Delphinium yunnanense*. **Ref:** 6, 16, 658.

**5005 Delectine**

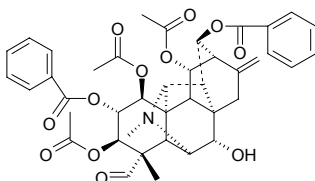
[58485-71-5]  $C_{31}H_{44}N_2O_8$  (572.70). White amorphous powder. **Source:** E MEI CUI QUE HUA *Delphinium omeiense*. **Ref:** 2190.

**5006 Delectinine**

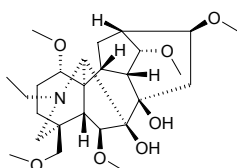
[58480-82-3]  $C_{24}H_{39}NO_7$  (453.58). White amorphous powder. **Source:** E MEI CUI QUE HUA *Delphinium omeiense*. **Ref:** 2190.

**5007 Delgrandine**

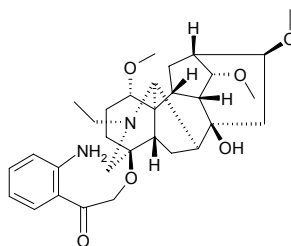
$C_{41}H_{43}NO_{12}$  (741.80). **Source:** FU ZI *Aconitum carmichaeli*. **Ref:** 16.

**5008 Delphatine**

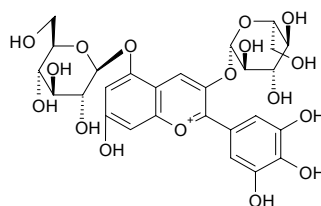
[25488-62-4]  $C_{26}H_{43}NO_7$  (481.64). **Pharm:** Anti-inflammatory (modified assay of Berridge, 100μg/mL, InRt = 17.39%)<sup>[5271]</sup>; tyrosinase inhibitor inactive (control Kojic acid,  $IC_{50} = (16.67 \pm 0.52) \mu\text{mol/L}$ , *L*-Mimosine,  $IC_{50} = (3.68 \pm 0.02) \mu\text{mol/L}$ )<sup>[5271]</sup>; antioxidant (DPPH scavenger, 1μmol/L, ScRt = 55.4%; control 3-*t*-Butyl-4-hydroxyanisole, 1μmol/L, ScRt = 92.5%)<sup>[5271]</sup>. **Source:** FU ZI *Aconitum carmichaeli*, *Aconitum leave* (aerial parts). **Ref:** 16, 5271.

**5009 Delphicrispuline**

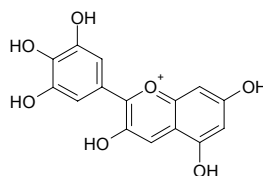
Neofinaconitine  $C_{30}H_{42}N_2O_6$  (526.68).  $[\alpha]_D^{20} = +23.8^\circ$  ( $c = 0.8$ ,  $\text{CHCl}_3$ ) **Source:** GAN WAN WU TOU *Aconitum finetianum*, TU ER QI CUI QUE HUA *Delphinium crispulum*. **Ref:** 1913, 2690.

**5010 Delphin**

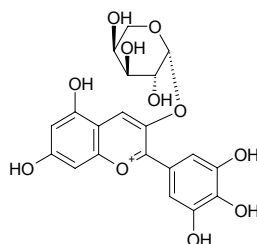
Delphinidin-3,5-diglucoside [17670-06-3]  $C_{27}H_{31}O_{17}^+$  (627.54). **Source:** BAI FAN DOU *Phaseolus vulgaris*, FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], MU XU *Medicago sativa*, QIE ZI *Solanum melongena*, YA ZHI CAO *Commelina communis*. **Ref:** 6.

**5011 Delphinidin**

Delphinidol  $C_{15}H_{11}O_7^+$  (303.25). **Pharm:** Pigment; leukocyte elastase MMP-2/9 inhibitor<sup>[4416]</sup>. **Source:** BU XUE CAO *Limonium gmelinii*, FENG XIAN HUA *Impatiens balsamina*, PU<sup>(3)</sup> TAO *Syzygium jambos*, TAO ER QI *Podophyllum emodii* [Syn. *Podophyllum emodii* var. *chinense*; *Podophyllum sikkimensis*; *Sinopodophyllum emodii*]. **Ref:** 6, 658, 4416.

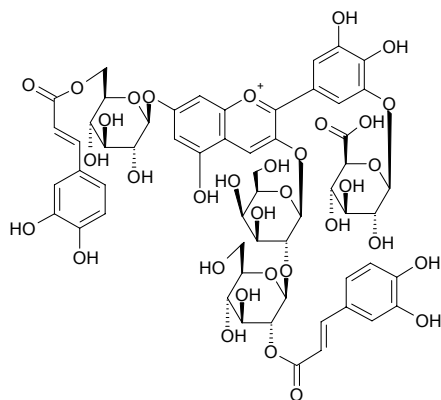
**5012 Delphinidin-3-arabinoside**

[28500-01-8]  $C_{20}H_{19}O_{11}^+$  (435.37). **Source:** ZI WEI HUA *Lagerstroemia indica*. **Ref:** 6.



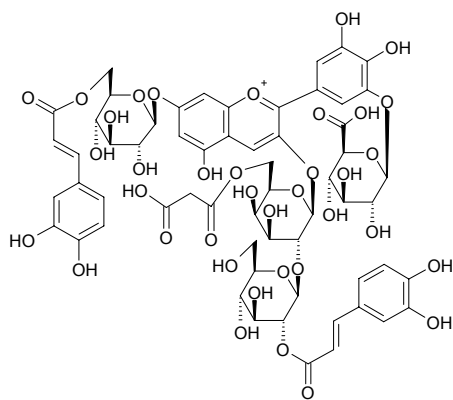
**5013 Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranosyl)- $\beta$ -*D*-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranoside]-3'-*O*-[ $\beta$ -*D*-glucuronopyranoside]**

$C_{57}H_{61}O_{34}^+$  (1290.10). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



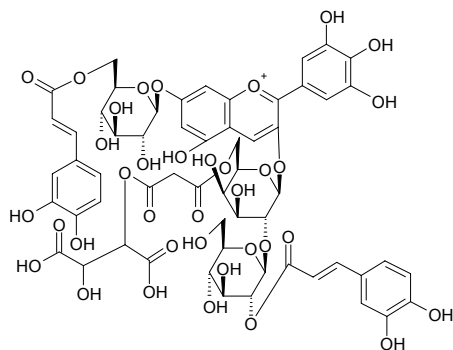
**5014 Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranosyl)-6-*O*-(malonyl)- $\beta$ -*D*-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranoside]-3'-*O*-[ $\beta$ -*D*-glucuronopyranoside]**

$C_{60}H_{63}O_{37}^+$  (1376.15). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



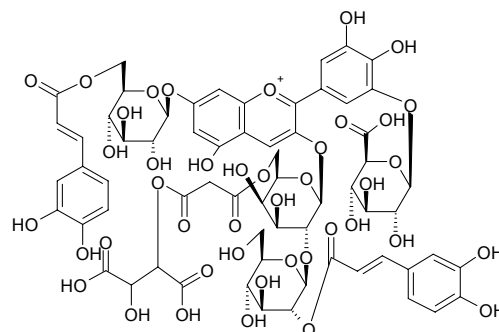
**5015 Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranosyl)-6-*O*-(2-*O*-(tartaryl)malonyl)- $\beta$ -*D*-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranoside]**

$C_{58}H_{59}O_{36}^+$  (1332.10). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



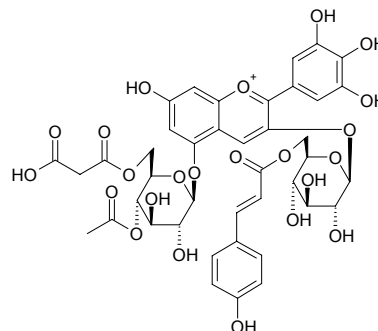
**5016 Delphinidin-3-*O*-[2-*O*-(2-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-glucopyranosyl)-6-*O*-(2-*O*-(tartaryl)malonyl)- $\beta$ -*D*-galactopyranoside]-7-*O*-[6-*O*-(*trans*-caffeoyl)- $\beta$ -*D*-gluco-pyranoside]-3'-*O*-[ $\beta$ -*D*-glucuronopyranoside]**

$C_{64}H_{67}O_{42}^+$  (1508.22). Source: HUA GUAN YIN LIAN HUA *Anemone coronaria*. Ref: 1956.



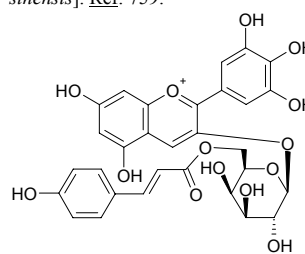
**5017 Delphinidin-3-*O*-[6-*O*-(*p*-coumaroyl)- $\beta$ -*D*-glucopyranoside]-5-*O*-[4-*O*-acetyl-6-*O*-malonyl- $\beta$ -*D*-glucopyranoside]**

$C_{41}H_{41}O_{23}^+$  (901.77). Source: *Salvia uliginosa*. Ref: 2367.



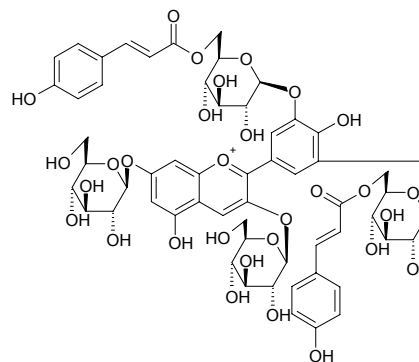
**5018 Delphinidin-3-*O*- $\beta$ -*D*-(6-(*E*)-*p*-coumaryl) galactopyranoside**

$C_{30}H_{27}O_{14}^+$  (611.54). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 759.



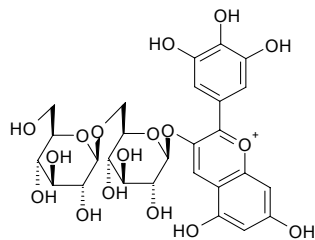
**5019 Delphinidin-3,7-di-*O*- $\beta$ -glucopyranoside-3',5'-di-*O*-(6-*O*-*p*-coumaroyl)- $\beta$ -glucopyranoside)**

$C_{57}H_{63}O_{31}^+$  (1244.12). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

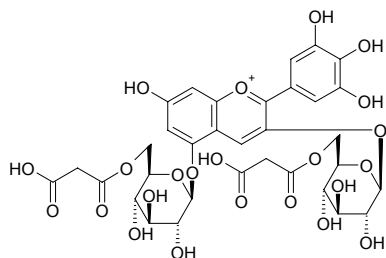


**5020 Delphinidin-3-diglucoside**

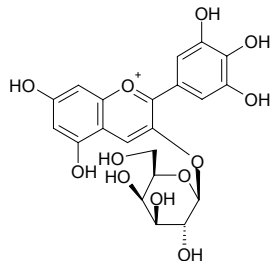
$C_{27}H_{31}O_{17}^+$  (627.54). Source: SHUI HU LU *Eichhornia crassipes*. Ref: 6.

**5021 Delphinidin-3,5-di-O-(6-O-malonyl-β-D-glucoside)**

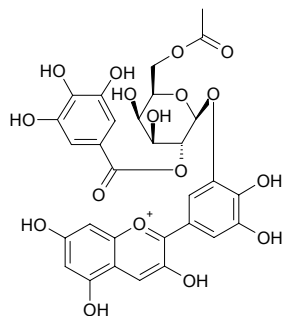
$C_{33}H_{35}O_{23}^+$  (799.63). Source: JU QU *Cichorium intybus*. Ref: 1955.

**5022 Delphinidin-3-O-β-D-galactopyranoside**

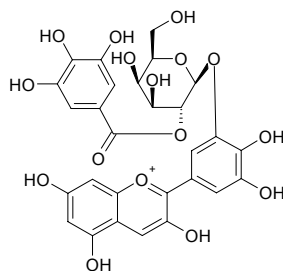
Empetrin [68852-84-6]  $C_{21}H_{21}O_{12}^+$  (465.39). Source: CHA YE *Camellia sinensis* [Syn. *Thea sinensis*]. Ref: 759.

**5023 Delphinidin-3'-O-(2''-O-galloyl-6''-O-acetyl-β-galactopyranoside)**

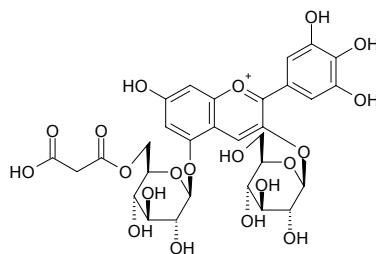
$C_{30}H_{27}O_{17}^+$  (659.54). Source: LAN SHUI LIAN *Nymphaea caerulea*. Ref: 1863.

**5024 Delphinidin-3'-O-(2''-O-galloyl-β-galactopyranoside)**

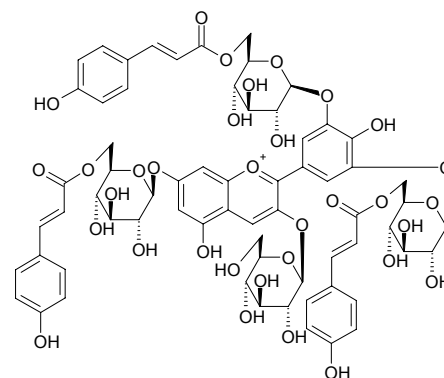
$C_{28}H_{25}O_{16}^+$  (617.50). Source: LAN SHUI LIAN *Nymphaea caerulea*. Ref: 1863.

**5025 Delphinidin-3-O-(β-D-glucopyranoside)-5-O-(6-O-malonyl-β-D-glucopyranoside)**

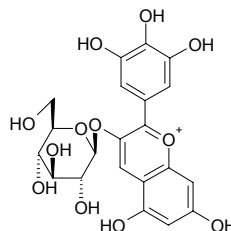
$C_{30}H_{33}O_{20}^+$  (713.59). Source: HE LAN ZHONG ZHI FAN HONG HUA *Crocus antalyensis* cv. Ref: 1897.

**5026 Delphinidin-3-O-β-D-glucopyranoside-7,3',5'-tri-O-(6-O-p-coumaroyl-β-glucopyranoside)**

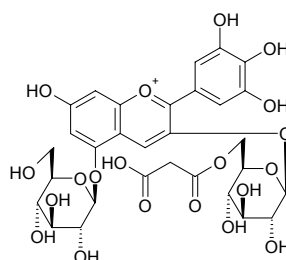
$C_{66}H_{69}O_{33}^+$  (1390.27). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

**5027 Delphinidin-3-glucoside**

[6906-38-3]  $C_{21}H_{21}O_{12}^+$  (465.39). Source: BAI FAN DOU *Phaseolus vulgaris*, HEI DA DOU PI *Glycine max*, QIE ZI *Solanum melongena*. Ref: 6.

**5028 Delphinidin-3-O-(6-O-malonyl-β-D-glucoside)-5-O-β-D-glucoside**

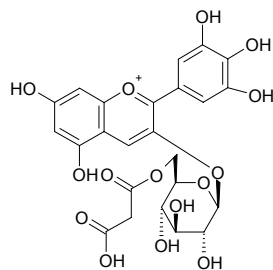
$C_{30}H_{33}O_{20}^+$  (713.59). Source: JU QU *Cichorium intybus*. Ref: 1955.



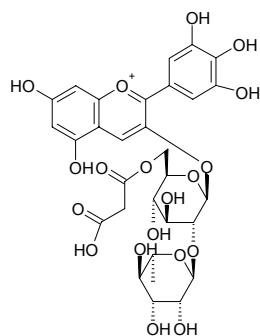


**5029 Delphinidin-3-neohesperidoside**

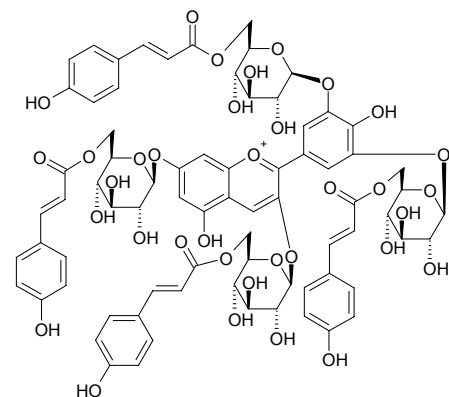
$C_{24}H_{23}O_{15}$  (551.44). Dark red amorphous powder. Source: HU DIE HUA DOU *Clitoria ternatea* (petal). Ref: 3480.

**5030****Delphinidin-3-O-(2''-O- $\alpha$ -rhamnosyl-6''-O-malonyl)- $\beta$ -glucoside**

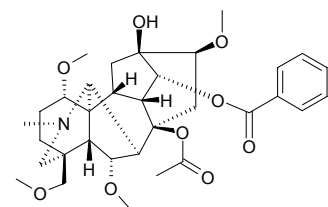
$C_{30}H_{33}O_{19}$  (697.59). Dark red amorphous powder. Source: HU DIE HUA DOU *Clitoria ternatea* (petal). Ref: 3480.

**5031****Delphinidin-3,7,3',5'-tetra-O-(6-O-*p*-coumaroyl)- $\beta$ -glucopyranoside)**

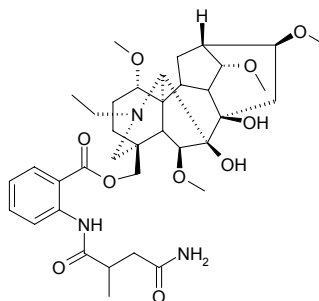
$C_{75}H_{75}O_{35}$  (1536.41). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

**5032 Delphinine**

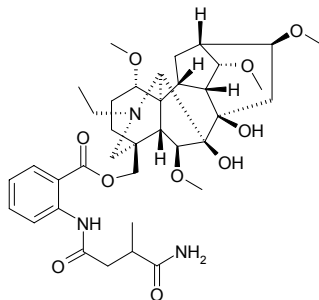
[561-07-9]  $C_{33}H_{45}NO_9$  (599.73). Pharm: Inhibits respiration; similar action with aconitine. Source: SI TA WEI CUI QUE HUA *Delphinium staphisagria*. Ref: 658.

**5033 Delsemine A**

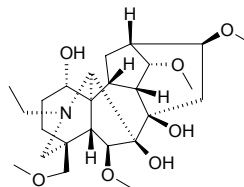
$C_{37}H_{53}N_3O_{10}$  (699.85).  $[\alpha]_D^{30} = +368^\circ$  ( $c = 0.7$ ,  $CHCl_3$ ). Source: E MEI CUI QUE HUA *Delphinium omeiense*, FU ZI *Aconitum carmichaeli*. Ref: 16, 2190.

**5034 Delsemine B**

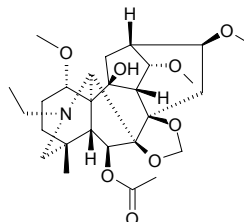
$C_{37}H_{53}N_3O_{10}$  (699.85).  $[\alpha]_D^{30} = +28.2^\circ$  ( $c = 0.6$ ,  $CHCl_3$ ). Source: E MEI CUI QUE HUA *Delphinium omeiense*, FU ZI *Aconitum carmichaeli*. Ref: 16, 2190.

**5035 Delsoline**

[509-18-2]  $C_{25}H_{41}NO_7$  (467.61). mp 213.0~216.5°C. Pharm: Causes paroxysm convulsion and breath inhibition (mus, administration by non-intestinal tract); insecticidal; antihypertensive (anesthetic cat and dog, 5~15mg/kg); smooth muscle relaxant. Source: E MEI CUI QUE HUA *Delphinium omeiense*, FEI YAN CAO *Consolida ajacis* [Syn. *Delphinium ajacis*], GAN WAN WU TOU *Aconitum finetianum*, QIANG GU FEI YAN CAO *Delphinium consolida*, SHAN DI WU TOU *Aconitum monticola*. Ref: 6, 658, 2190.

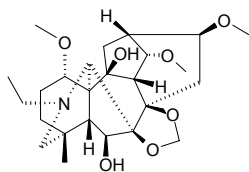
**5036 Deltaline**

[6836-11-9]  $C_{27}H_{41}NO_8$  (507.63). Pharm: Antispasmodic; antihypertensive (rat, iv, 20mg/kg). Source: FU ZI *Aconitum carmichaeli*, GAO FEI YAN CAO *Delphinium elatum*, WANG GUO CUI QUE HUA *Delphinium dictyocarpum*, XI FANG CUI QUE *Delphinium occidentale*, YI LI CUI QUE HUA *Delphinium iliense*. Ref: 16, 658.

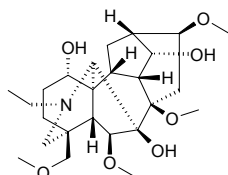


**5037 Deltamine**

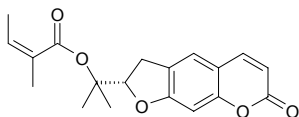
[6836-10-8]  $C_{25}H_{39}NO_7$  (465.59). Source: FU ZI *Aconitum carmichaeli*.  
Ref: 16.

**5038 Deltatsine**

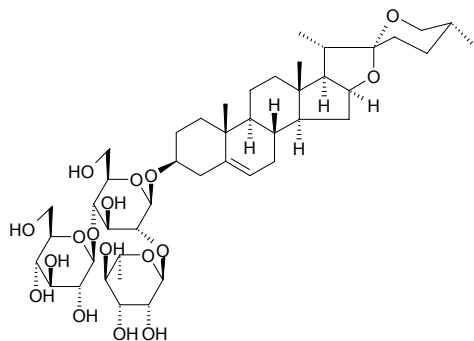
[92631-66-8]  $C_{25}H_{41}NO_7$  (467.61). Amorphous powder,  $+1H_2O$ ,  $[\alpha]_D^{20} = +28.6^\circ$  ( $c = 2.4$ , EtOH). Source: E MEI CUI QUE HUA *Delphinium omeiense*, KANG DING CUI QUE HUA *Delphinium tatsienense*. Ref: 1521, 2190.

**5039 Deltoin**

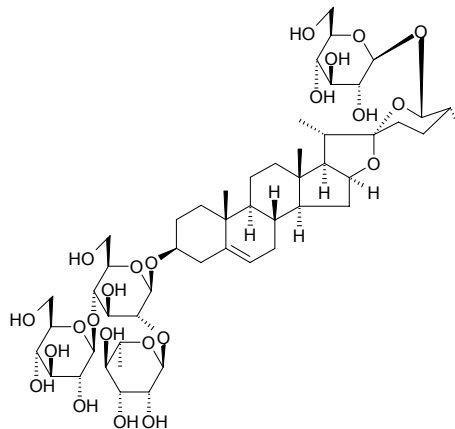
[19662-71-6]  $C_{19}H_{20}O_5$  (328.37). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouriella seseloides*], YUN QIAN HU *Peucedanum rubricaulis*. Ref: 2, 177.

**5040 Deltonin**

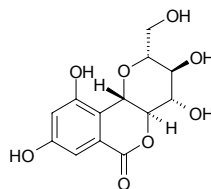
Trilloside A [55659-75-1]  $C_{45}H_{72}O_{17}$  (885.07). mp 290~292°C. Pharm: Raw material for partial synthesis of steroid hormone (its aglucon is used); phosphatase inhibitor (HeLa cell stimulated by TPA and joined by  $^{32}P$ )<sup>[2165]</sup>. Source: SAN JIAO YE SHU YU *Dioscorea deltoidea*, SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], XIAO HUA DUN YE SHU YU *Dioscorea parviflora*, YU ER QI *Trillium camtschaticum*, ZA JIAO BAI HE *Lilium speciosum* x *L. nobilissimum*. Ref: 6, 10, 658, 2165.

**5041 Deltoside**

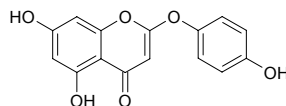
$C_{51}H_{82}O_{23}$  (1063.21). Pharm: Raw material for partial synthesis of steroid hormone (its diosgenin is used). Source: SAN JIAO YE SHU YU *Dioscorea deltoidea*, XIAO HUA DUN YE SHU YU *Dioscorea parviflora*. Ref: 10.

**5042 Demethoxybergenin**

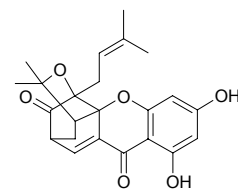
$C_{13}H_{15}O_8$  (298.25). Colorless needles, mp 305°C (dec., MeOH),  $[\alpha]_D^{20} = -22.7^\circ$  ( $c = 0.08$ , MeOH). Pharm: Cytotoxic inactive (murine breast cancer cell line FM3A, 100μmol/L). Source: YOU SE ZI JIN NIU *Ardisia colorata* (fruit). Ref: 4244.

**5043 6-Demethoxycapillarisin**

$C_{15}H_{10}O_6$  (286.24). Source: YIN CHEN HAO *Artemisia capillaris*. Ref: 2.

**5044 Demethoxy-cochinchinone D**

$C_{23}H_{24}O_6$  (396.44). Pharm: Antioxidant inactive (DPPH scavenger, 50μmol/L, ScRt = 5.2%; control BHT, 50μmol/L, ScRt = 51.7%,  $IC_{50} = 28.9μmol/L$ )<sup>[4423]</sup>. Source: HUANG NIU MU *Cratoxylum cochinchinense* (root). Ref: 4423.



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Vol. 2: Isolated Compounds D-G

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2011, XXXI, 525 p., Hardcover

ISBN: 978-3-642-16737-9