

Volume 5

Isolated Compounds (T-Z)

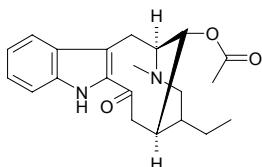
References

TCM Plants and Congeners

T

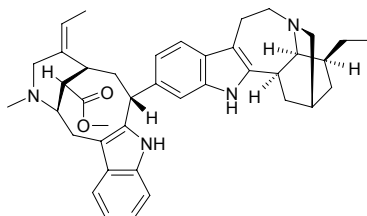
20575 Tabernaemontanine

$C_{21}H_{26}N_2O_3$ (354.45). Acicular crystals (ethyl acetate), mp 219–222°C, $[\alpha]_D^{25} = -57.5^\circ$ ($c = 1$, chloroform); hydrochloride crystals (acetone), mp 230–233°C. **Pharm:** Antibacterial (against 30 different pathogenic bacterial strains, 3.7% solution, InRt = 17%); cytotoxic (KB); used in treatment of arteriosclerosis, cerebral wounds and dysemia; vasodilator (dog, iv, 0.5–5.0mg/kg). **Source:** DONG FANG GOU YA HUA *Ervatamia orientalis*. **Ref:** 658.



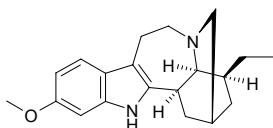
20576 Tabernamine

$C_{40}H_{48}N_4O_2$ (616.85). **Pharm:** Antineoplastic (P₃₈₈). **Source:** YUE HAN SI TONG SHAN MA CHA *Tabernaemontana johnstonii*. **Ref:** 658.



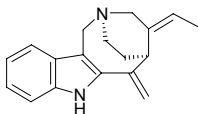
20577 Tabernanthine

$C_{20}H_{26}N_2O$ (310.44). **Pharm:** CNS activity; binding activity to benzodiazepine receptor. **Source:** family Apocynaceae spp. **Ref:** 658.



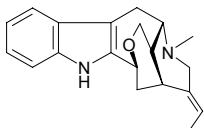
20578 Tabernoschizine

Pericalline [2122-36-3] $C_{18}H_{20}N_2$ (264.37). mp 198–199°C. **Pharm:** Analgesic; antibacterial (*Shigella* sp., *Salmonella* sp., *Escherichia* sp., *Bacillus termo*, *Pseudomonas maltophilia*, *Staphylococcus* sp.); antiviral (spodiomyelitis virus). **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*], CU MAO GUO BAI JIAN MU *Aspidosperma dasycarpon*. **Ref:** 6, 658, 1521.



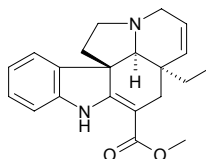
20579 19-(Z)-Taberpsychine

$C_{20}H_{24}N_2O$ (308.43). Oil, $[\alpha]_D = -180^\circ$. **Source:** GOU WEN *Gelsemium elegans*. **Ref:** 14, 411, 416.



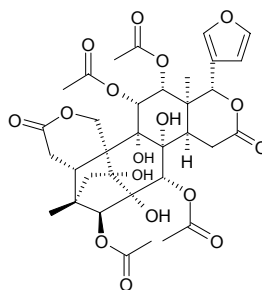
20580 Tabersonine

$C_{21}H_{24}N_2O_2$ (336.44). **Pharm:** Antihypertensive. **Source:** CHANG CHUN HUA *Catharanthus roseus* [Syn. *Vinca rosea*; *Lochera rosea*]. **Ref:** 2, 658.



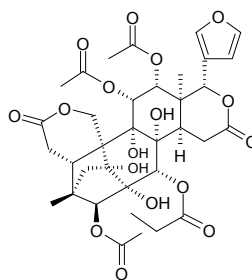
20581 Tabulalide A

$C_{34}H_{40}O_{17}$ (720.69). White amorphous powder, $[\alpha]_D = -44^\circ$ ($c = 0.21$, MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



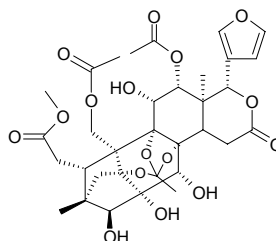
20582 Tabulalide B

$C_{35}H_{42}O_{17}$ (734.71). White amorphous powder, $[\alpha]_D = -37^\circ$ ($c = 0.14$, MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.



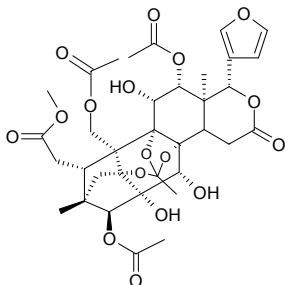
20583 Tabulalide C

$C_{33}H_{40}O_{16}$ (692.68). White amorphous powder, $[\alpha]_D = -49^\circ$ ($c = 0.28$, MeOH). **Source:** MA LIAN *Chukrasia tabularis* (root cortex). **Ref:** 3868.

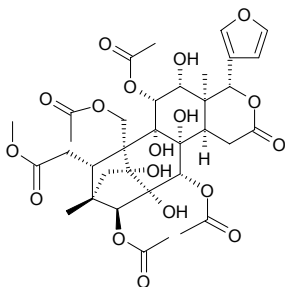


20584 Tabulalide D

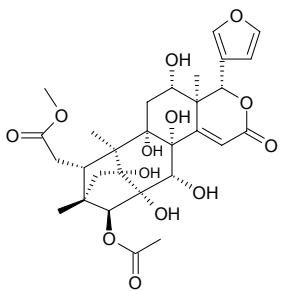
$C_{35}H_{42}O_{17}$ (734.71). White amorphous powder, $[\alpha]_D = -52^\circ$ ($c = 0.16$, MeOH).
Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20585 Tabulalide E**

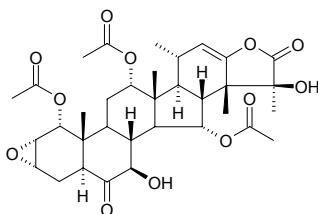
$C_{35}H_{44}O_{18}$ (752.73). White amorphous powder, $[\alpha]_D = -2.9^\circ$ ($c = 0.07$, MeOH).
Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20586 Tabularin**

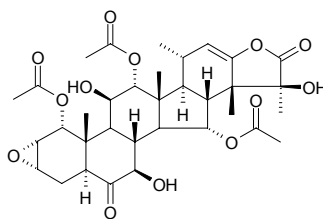
$C_{29}H_{36}O_{13}$ (592.60). White amorphous powder, $[\alpha]_D = +41^\circ$ ($c = 0.19$, MeOH).
Source: MA LIAN *Chukrasia tabularis* (root cortex). Ref: 3868.

**20587 Taccalonolide E**

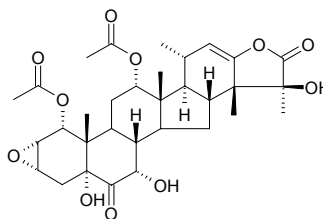
$C_{34}H_{44}O_{12}$ (644.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20588 Taccalonolide F**

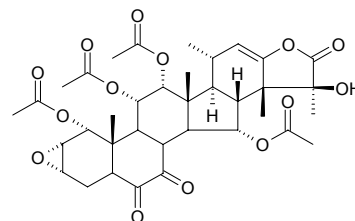
$C_{34}H_{44}O_{13}$ (660.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20589 Taccalonolide G**

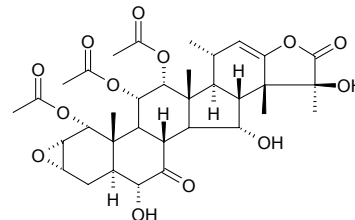
$C_{32}H_{42}O_{11}$ (602.68). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20590 Taccalonolide H**

$C_{36}H_{44}O_{14}$ (700.74). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

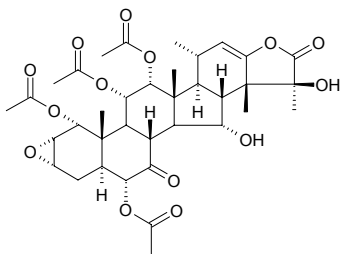
**20591 Taccalonolide I**

$C_{34}H_{44}O_{13}$ (660.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

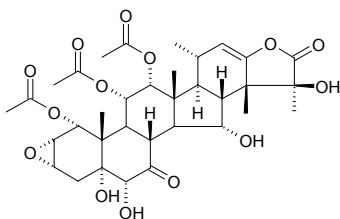


20592 Taccalonolide J

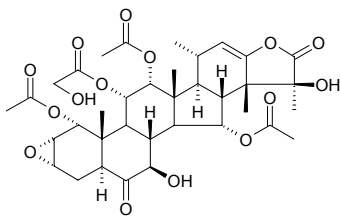
$C_{36}H_{46}O_{14}$ (702.76). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20593 Taccalonolide K**

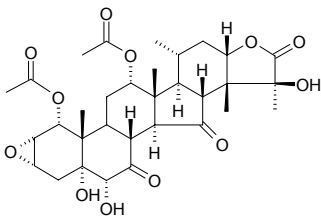
$C_{34}H_{44}O_{14}$ (676.72). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20594 Taccalonolide L**

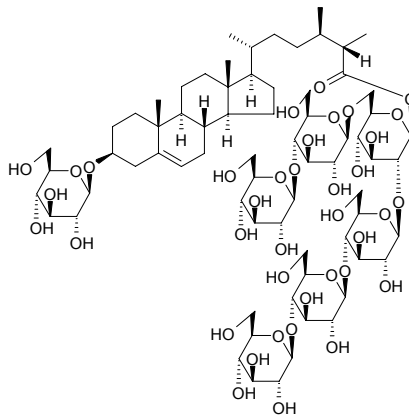
$C_{36}H_{46}O_{15}$ (718.76). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20595 Taccalonolide M**

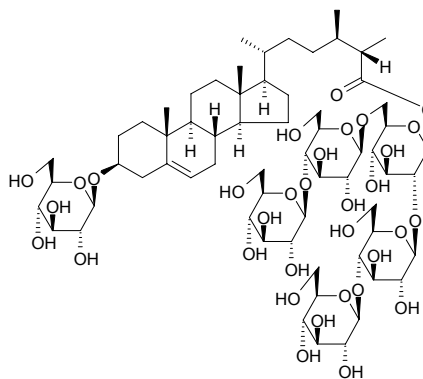
$C_{32}H_{42}O_{12}$ (618.68). Source: LIE GUO SHU *Tacca plantaginea* [Syn. *Schizocapsa plantaginea*]. Ref: 293.

**20596 Taccasteroside A**

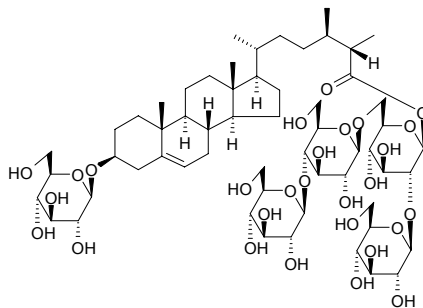
(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester $C_{70}H_{116}O_{38}$ (1565.68). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

**20597 Taccasteroside B**

(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→4)-*O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester $C_{64}H_{106}O_{33}$ (1403.54). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

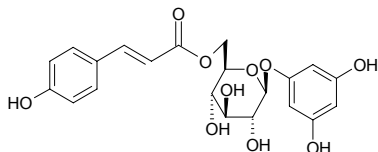
**20598 Taccasteroside C**

(24*R*,25*S*)-3β-[(β-*D*-Glucopyranosyl)oxy]ergost-5-en-26-oic acid *O*-β-*D*-glucopyranosyl-(1→2)-*O*-[*O*-β-*D*-glucopyranosyl-(1→4)-β-*D*-glucopyranosyl-(1→6)]-β-*D*-glucopyranosyl ester $C_{58}H_{96}O_{28}$ (1241.40). Source: JIAN GEN SHU *Tacca chantrieri* [Syn. *Tacca minor*; *Tacca esquirolii*]. Ref: 2568.

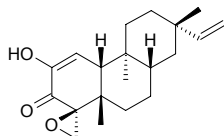


20599 Tadehaginoside

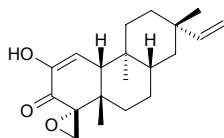
$C_{21}H_{22}O_{10}$ (434.40). White acicular crystals (CH_3OH), mp 121~123°C, $[\alpha]_D^{28} = -14.7^\circ$ ($c = 0.2$, CH_3OH). Source: HU LU CHA *Tadehagi triquetrum*. Ref: 777.

**20600 Tagalsin A**

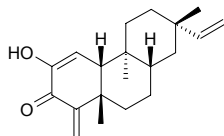
$C_{20}H_{28}O_3$ (316.44). Pale yellow needle crystals, mp 67~69°C, $[\alpha]_D^{25} = +69.26^\circ$ ($c = 0.054$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20601 Tagalsin B**

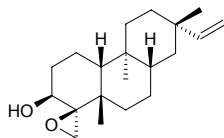
$C_{20}H_{28}O_3$ (316.44). White solid, mp 66~68°C, $[\alpha]_D^{25} = +165^\circ$ ($c = 0.06$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20602 Tagalsin C**

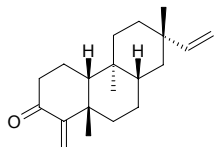
$C_{20}H_{28}O_2$ (300.44). Yellow oil, $[\alpha]_D^{25} = +92.3^\circ$ ($c = 0.05$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20603 Tagalsin D**

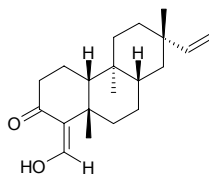
$C_{20}H_{32}O_2$ (304.48). White solid, mp 64~66°C, $[\alpha]_D^{25} = +38.4^\circ$ ($c = 0.074$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20604 Tagalsin E**

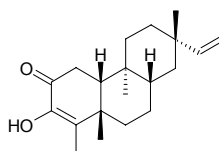
$C_{20}H_{30}O$ (286.46). Yellow solid, mp 73~75°C, $[\alpha]_D^{25} = +7.85^\circ$ ($c = 0.07$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20605 Tagalsin F**

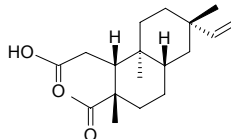
$C_{20}H_{30}O_2$ (302.46). White solid, mp 98~99°C, $[\alpha]_D^{25} = +34.86^\circ$ ($c = 0.072$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20606 Tagalsin G**

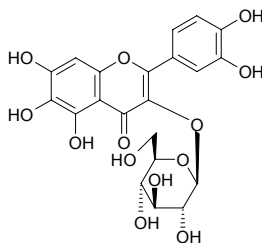
$C_{20}H_{30}O_2$ (302.46). Colorless oil, $[\alpha]_D^{25} = +55.97^\circ$ ($c = 0.09$, $CHCl_3$). Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20607 Tagalsin H**

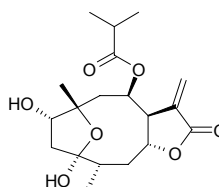
$C_{19}H_{30}O_3$ (306.45). White powder, mp 101~102°C. Source: JIAO GUO MU *Ceriops tagal* [Syn. *Rhizophora tagal*] (stem and twig). Ref: 5293.

**20608 Tagetiin**

$C_{21}H_{20}O_{13}$ (480.39). mp 203°C (dec). Source: WAN SHOU JU *Tagetes erecta*. Ref: 6.

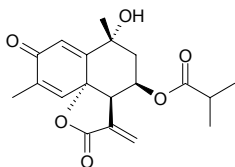
**20609 Tagitinin A**

$C_{19}H_{28}O_7$ (368.43). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts). Ref: 4622.

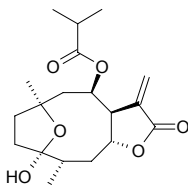


20610 Tagitinin C

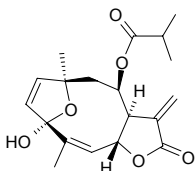
$C_{19}H_{22}O_6$ (346.38). **Pharm:** Cytotoxic (antiproliferative, Col2 cells, $IC_{50} = 0.7\mu g/mL$); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, $4\mu g/mL$, activity denotes percentage of cells differentiated = 20.2%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, $10\mu g/mL$, rel-InRt = 44.4%, control DMBA, rel-InRt = 100%). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts, 13.9%dw). **Ref:** 4622.

**20611 Tagitinin D**

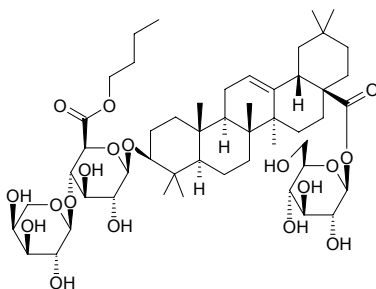
Tirotundin [56377-67-4] $C_{19}H_{28}O_6$ (352.43). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts). **Ref:** 4622.

**20612 Tagitinin F**

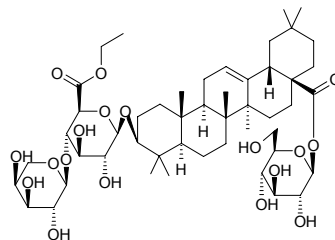
$C_{19}H_{24}O_6$ (348.40). Colorless acicular crystals (benzene–hexane), mp $128\sim 130^\circ C$, $[\alpha]_D = -144^\circ$ ($c = 1$, ethanol). **Pharm:** Antineoplastic (mus P_{388} , 1.25mg/kg, biotic prolonged rate = 61%). **Source:** MO XI GE XIANG RI KUI *Tithonia tagiliflora*. **Ref:** 661.

**20613 Taibaienoside I**

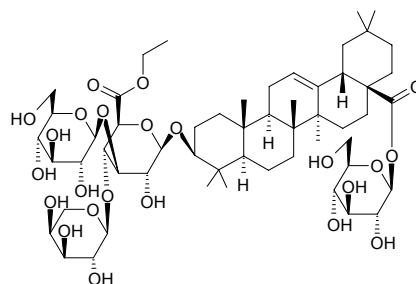
3-*O*-[α -*L*-Arabinofuranosyl (1 \rightarrow 4)-6'-*O*-*n*-butyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside $C_{51}H_{82}O_{18}$ (983.21). White acicular crystals (chloroform–methanol), mp $177\sim 180^\circ C$, $[\alpha]_D^{20} = -20.23^\circ$ ($c = 0.54$, methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20614 Taibaienoside II**

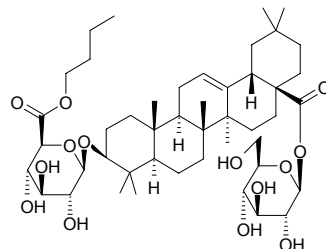
3-*O*-[α -*L*-Arabinofuranosyl-(1 \rightarrow 4)-6'-*O*-ethyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside $C_{49}H_{78}O_{18}$ (955.16). White crystalline powder, mp $194\sim 195^\circ C$, $[\alpha]_D^{20} = -22.85^\circ$ ($c = 0.41$, methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20615 Taibaienoside III**

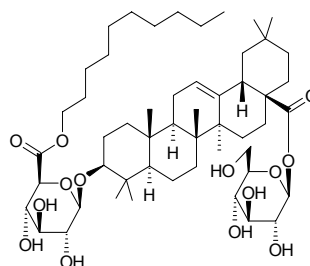
3-*O*-[β -*D*-Glucopyranosyl-(1 \rightarrow 3)[α -*L*-arabinofuranosyl-(1 \rightarrow 4)]-6'-*O*-ethyl- β -*D*-glucuronopyranosyl]-oleanolic acid-28-*O*- β -*D*-glucopyranoside $C_{55}H_{88}O_{23}$ (1117.30). White crystalline powder, mp $194\sim 195^\circ C$, $[\alpha]_D^{20} = -22.85^\circ$ ($c = 0.41$, methanol). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 394.

**20616 Taibaienoside IV**

$C_{46}H_{74}O_{14}$ (851.09). White crystalline powder, mp $181\sim 184^\circ C$, $[\alpha]_D^{20} = +8.12^\circ$ ($c = 0.23$, MeOH). **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 470.

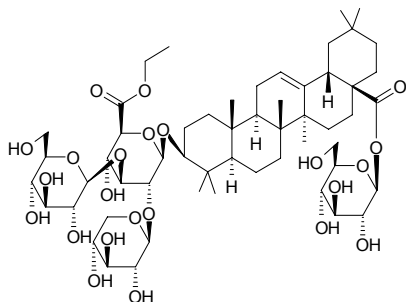
**20617 Taibaienoside V**

$C_{52}H_{86}O_{14}$ (935.26). White crystalline powder, mp $162\sim 164^\circ C$. **Source:** TAI BAI CONG MU *Aralia taibaiensis*. **Ref:** 470.

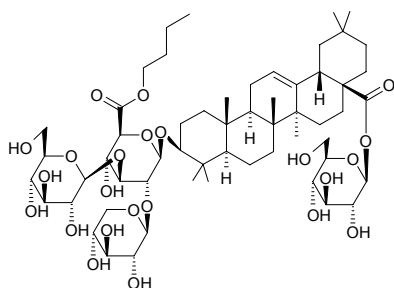


20618 Taibaenoside VII

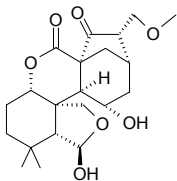
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)][β -*D*-glucopyranosyl-(1 \rightarrow 3)]-6'-*O*-ethyl- β -*D*-glucuronopyranosyl] oleanolic acid-28-*O*- β -*D*-glucopyranoside C₅₅H₈₈O₂₃ (1117.30). White crystalline powder, mp 207~209°C. Source: TAI BAI CONG MU *Aralia taibaiensis*. Ref: 359.

**20619 Taibaenoside VIII**

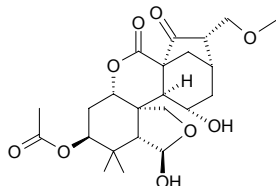
3-*O*-[β -*D*-Xylopyranosyl-(1 \rightarrow 2)][β -*D*-glucopyranosyl-(1 \rightarrow 3)]-6'-*O*-butyl- β -*D*-glucuronopyranosyl]oleanolic acid-28-*O*- β -*D*-glucopyranoside C₅₇H₉₂O₂₃ (1145.35). White crystalline powder, mp 212~213°C, $[\alpha]_D^{20} = +4.90^\circ$ ($c = 0.82$, methanol). Source: TAI BAI CONG MU *Aralia taibaiensis*. Ref: 359.

**20620 Taibaijaponicain A**

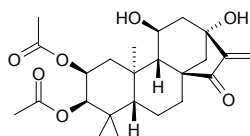
6 β ,11 α -Dihydroxy-16 α -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide C₂₁H₃₀O₇ (394.47). Amorphous powder, $[\alpha]_D^{17} = -104.7^\circ$ ($c = 0.49$, acetone). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (leaf and branch). Ref: 5192.

**20621 Taibaijaponicain B**

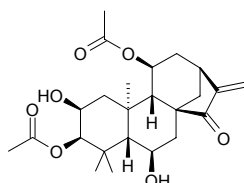
3 β -Acetoxy-6 β ,11 α -dihydroxy-16 α -methoxymethyl-6,20-epoxy-6,7-seco-*ent*-kaur-15-one-1,7-olide C₂₃H₃₂O₉ (452.51). Amorphous powder, $[\alpha]_D^{17} = -98.6^\circ$ ($c = 0.5$, acetone). Source: MAO YE XIANG CHA CAI *Isodon japonica* [Syn. *Rabdosia japonica*] (leaf and branch). Ref: 5192.

**20622 Taibairubescensin A**

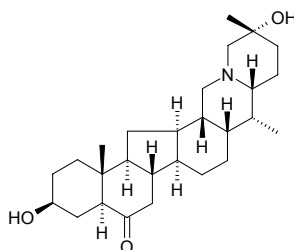
2 β ,3 β -Diacetoxy-11 β ,13 α -dihydroxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Amorphous powder, $[\alpha]_D^{17} = 49.3^\circ$ ($c = 0.5$, CHCl₃). Source: DONG LING CAO *Rabdosia rubescens*. Ref: 765, 4067.

**20623 Taibairubescensin B**

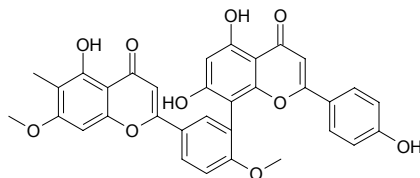
3 β ,11 β -Diacetoxy-2 β ,6 α -dihydroxy-*ent*-kaur-16-en-15-one C₂₄H₃₄O₇ (434.53). Amorphous powder, $[\alpha]_D^{17} = -34^\circ$ ($c = 1$, CHCl₃). Source: DONG LING CAO *Rabdosia rubescens*. Ref: 765, 4067.

**20624 Taipainenine**

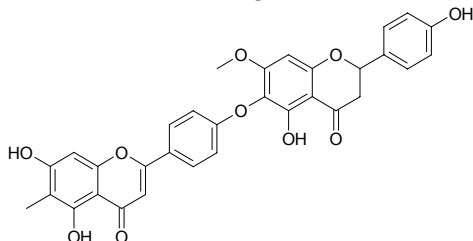
C₂₇H₄₃NO₃ (429.65). Acicular crystals, mp 120~122°C, $[\alpha]_D^{28} = +12.9^\circ$ ($c = 0.31$, MeOH). Source: NING XIA BEI MU *Fritillaria taipaiensis* var. *ningxiaensis*. Ref: 271.

**20625 Taiwanhomoflavone A**

C₃₃H₂₄O₁₀ (580.55). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf: yield = 0.00087%dw). Ref: 4759.

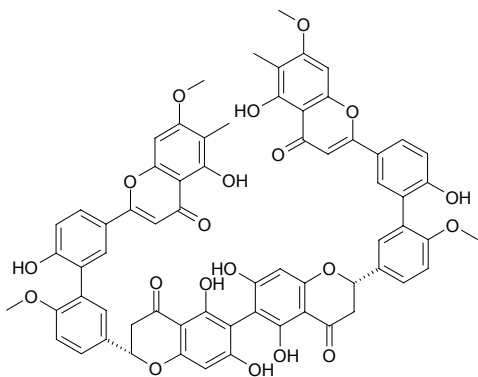
**20626 Taiwanhomoflavone B**

C₃₂H₂₄O₁₀ (568.54). Pale yellow powder. Pharm: Cytotoxic (KB oral epidermoid carcinoma, ED₅₀ = 3.8 μ g/mL, Hep3B hepatoma cells, ED₅₀ = 3.5 μ g/mL). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (twig). Ref: 4253.

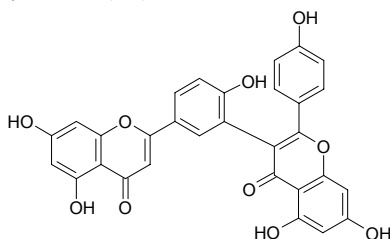


20627 Taiwanhomoflavone C

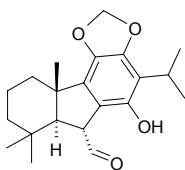
Di(5,7,4"-trihydroxy-2,3-dihydro-4',7"-dimethoxy-6"-methyl-3',3"-biflavanyl)-6,6-tetraflavone C₆₆H₅₀O₂₀ (1163.12). Yellow amorphous solid, $[\alpha]_D^{28} = +44^\circ$ ($c = 0.114$, MeOH). Source: TAI WAN CU FEI *Cephalotaxus wilsoniana* (leaf; yield = 0.00096%dw). Ref: 4759.

**20628 Taiwaniaflavone**

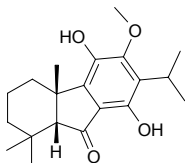
C₃₀H₁₈O₁₀ (538.47). Source: TAI WAN CUI BAI *Calocedrus macrolepis* var. *formosana* (leaf). Ref: 4297.

**20629 Taiwaniaquinol A**

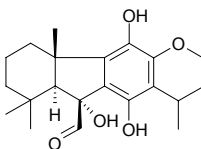
C₂₁H₂₈O₄ (344.45). $[\alpha]_D^{22} = +80.5^\circ$ ($c = 0.38$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ = (8.3±0.4)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 5045.

**20630 Taiwaniaquinol B**

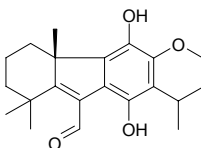
C₂₀H₂₈O₄ (332.44). $[\alpha]_D^{22} = -50.1^\circ$ ($c = 0.27$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ > 10μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 5045.

**20631 Taiwaniaquinol C**

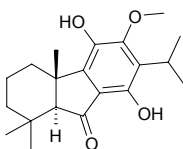
C₂₁H₃₀O₅ (362.47). Yellowish amorphous, $[\alpha]_D^{23} = -10.5^\circ$ ($c = 0.32$, CHCl₃); $[\alpha]_D^{22} = -10.5^\circ$ ($c = 0.32$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ = (8.1±0.7)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L)^[5045]. Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4409, 5045.

**20632 Taiwaniaquinol D**

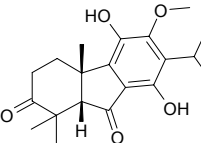
C₂₁H₂₈O₄ (344.45). Red-orange gum, $[\alpha]_D^{23} = -80.2^\circ$ ($c = 0.32$, CHCl₃); $[\alpha]_D^{22} = -80.2^\circ$ ($c = 0.32$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ = (3.5±0.1)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L)^[5045]. Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 4409, 5045.

**20633 Taiwaniaquinol E**

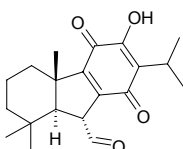
C₂₀H₂₈O₄ (332.44). Yellowish gum, $[\alpha]_D^{22} = -8.3^\circ$ ($c = 0.32$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ > 10μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 5045.

**20634 Taiwaniaquinol F**

C₂₀H₂₆O₅ (346.43). Yellowish gum, $[\alpha]_D^{22} = -5.2^\circ$ ($c = 0.32$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ > 10μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 5045.

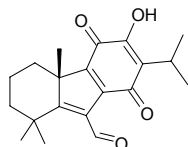
**20635 Taiwaniaquinone A**

C₂₀H₂₆O₄ (330.43). $[\alpha]_D^{22} = -210.5^\circ$ ($c = 0.34$, CHCl₃). Pharm: Cytotoxic (*in vitro*, KB cells, IC₅₀ = (6.9±0.3)μmol/L, control Etoposide, IC₅₀ = (1.1±0.02)μmol/L). Source: TAI WAN SHAN *Taiwania cryptomerioides* (bark). Ref: 5045.

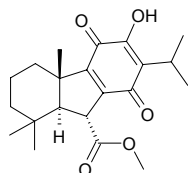


20636 Taiwaniaquinone D

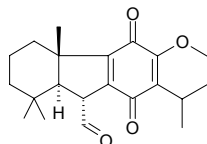
$C_{20}H_{24}O_4$ (328.41). $[\alpha]_D^{22} = -5.6^\circ$ ($c = 0.54$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} = (7.2 \pm 0.05) \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20637 Taiwaniaquinone E**

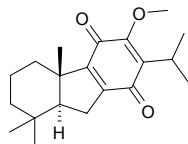
$C_{21}H_{28}O_5$ (360.45). $[\alpha]_D^{22} = -205.5^\circ$ ($c = 0.34$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20638 Taiwaniaquinone F**

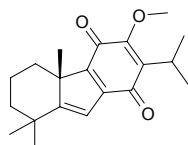
$C_{21}H_{28}O_4$ (344.45). Orange amorphous, $[\alpha]_D^{23} = -166.2^\circ$ ($c = 0.29$, $CHCl_3$); $[\alpha]_D^{22} = -116.2^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} = (4.4 \pm 0.34) \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$)^[5045]. **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 4409, 5045.

**20639 Taiwaniaquinone G**

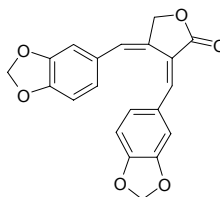
$C_{20}H_{28}O_3$ (316.44). Yellowish amorphous solid, $[\alpha]_D^{22} = -120.8^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20640 Taiwaniaquinone H**

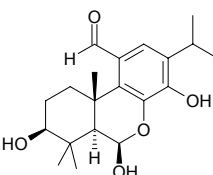
$C_{20}H_{26}O_3$ (314.43). Red-orange amorphous solid, $[\alpha]_D^{22} = -9.0^\circ$ ($c = 0.29$, $CHCl_3$). **Pharm:** Cytotoxic (*in vitro*, KB cells, $IC_{50} > 10 \mu\text{mol/L}$, control Etoposide, $IC_{50} = (1.1 \pm 0.02) \mu\text{mol/L}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (bark). **Ref:** 5045.

**20641 Taiwanin A**

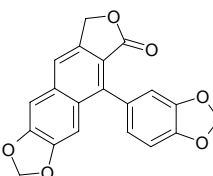
$C_{20}H_{14}O_6$ (350.33). **Pharm:** Cytotoxic (A549, $ED_{50} = 0.2 \mu\text{mol/L}$, $ED_{50} = 0.4 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01 \mu\text{mol/L}$, $ED_{50} = 0.02 \mu\text{g/mL}$; MCF7, $ED_{50} = 0.2 \mu\text{mol/L}$, $ED_{50} = 0.5 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$; HT29, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.3 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

**20642 Taiwaninal**

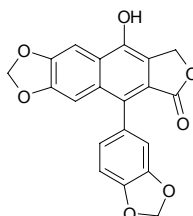
$C_{20}H_{28}O_5$ (348.44). Yellowish solid, mp $160 \sim 162^\circ\text{C}$, $[\alpha]_D^{25} = -23.5^\circ$ ($c = 0.19$, $CHCl_3$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides*. **Ref:** 2526.

**20643 Taiwanin C**

$C_{20}H_{12}O_6$ (348.32). **Pharm:** Cytotoxic (A549, $ED_{50} = 5.8 \mu\text{mol/L}$, $ED_{50} = 16.7 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01 \mu\text{mol/L}$, $ED_{50} = 0.02 \mu\text{g/mL}$; MCF7, $ED_{50} = 4.1 \mu\text{mol/L}$, $ED_{50} = 11.7 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$; HT29, $ED_{50} = 14.3 \mu\text{mol/L}$, $ED_{50} = 41.1 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

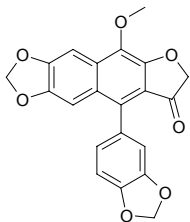
**20644 Taiwanin E**

$C_{20}H_{12}O_7$ (364.31). **Pharm:** Cytotoxic (A549, $ED_{50} = 1.2 \mu\text{mol/L}$, $ED_{50} = 3.4 \mu\text{g/mL}$, control Adriamycin, $ED_{50} = 0.01 \mu\text{mol/L}$, $ED_{50} = 0.02 \mu\text{g/mL}$; MCF7, $ED_{50} = 0.5 \mu\text{mol/L}$, $ED_{50} = 1.4 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$; HT29, $ED_{50} = 0.6 \mu\text{mol/L}$, $ED_{50} = 1.5 \mu\text{g/mL}$, Adriamycin, $ED_{50} = 0.1 \mu\text{mol/L}$, $ED_{50} = 0.1 \mu\text{g/mL}$). **Source:** TAI WAN SHAN *Taiwania cryptomerioides* (heartwood). **Ref:** 5088.

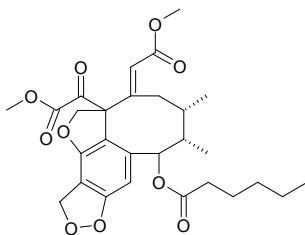


20645 Taiwanin E methyl ether

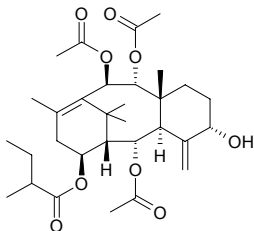
$C_{21}H_{14}O_7$ (378.34). mp 227~230°C. Source: JUE CHUANG *Rostellularia procumbens* [Syn. *Justicia procumbens*], QIANG DAO YAO *Hypoestes purpurea* [Syn. *Justicia purpurea*; *Hypoestes sinica*] (whole herb: yield = 0.0045%dw). Ref: 6, 4712.

**20646 Taiwanschirin D**

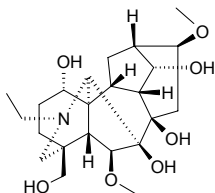
$C_{28}H_{34}O_{10}$ (530.58). Source: *Kadsura matsudai*. Ref: 2436.

**20647 Taiwanxan**

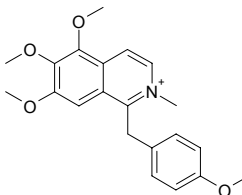
$C_{31}H_{46}O_9$ (562.71). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**20648 Takaosamine**

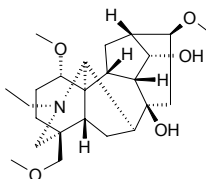
[71239-56-0] $C_{23}H_{37}NO_7$ (439.55). mp 174~175°C, $[\alpha]_D^{20} = +61.2^\circ$ ($c = 0.41$, $CHCl_3$). Source: RI BEN WU TOU *Aconitum japonicum*. Ref: 1521.

**20649 Takatonine**

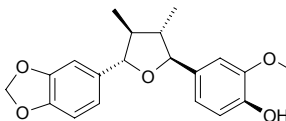
$C_{21}H_{24}NO_4$ (354.43). Source: XIAO TANG SONG CAO *Thalictrum minus*, YAN GUO CAO *Thalictrum thunbergii*. Ref: 6, 1521.

**20650 Talatisamine**

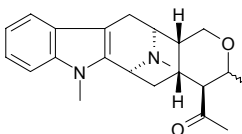
$C_{24}H_{39}NO_5$ (421.58). Colorless crystals, mp 151~152°C. Pharm: Anti-inflammatory; blocks sympathetic ganglia (dog iv, 20mg/kg); antihypertensive; LD_{50} (mus iv) = 115mg/kg. Source: BAN HUA WU TOU *Aconitum variegatum*, DA DU WU TOU *Aconitum franchetii* (dried tuberosid: content = 0.017%)^[5508], FU ZI *Aconitum carmichaeli*, GAN QING WU TOU *Aconitum tanguticum*, GUA YE WU TOU *Aconitum hemsleyanum*, LIN DI WU TOU *Aconitum nemorum*, MIAN NING WU TOU *Aconitum legendrei*, TA LA WU TOU *Aconitum talassicum*, WU TOU *Aconitum carmichaeli*, ZHUA KUI GUA YE WU TOU *Aconitum hemsleyanum* var. *leueanthus* (tuberosid: yield = 0.019%dw)^[4678]. Ref: 2, 658, 2203, 3171, 4678, 5508.

**20651 Talaumidin**

(7*S*,7'*S*,8*S*,8'*S*)-4-Hydroxy-3-methoxy-3',4'-methylenedioxy-7,7'-epoxilignan $C_{20}H_{22}O_5$ (342.40). Pharm: Neurotrophic (primary culture of rat cortical neurons; trophic withdrawal model, 3~30μmol/L, protects cell death caused by deprivation of serum). Source: GONG XING MA DOU LING *Aristolochia arcuata* (root). Ref: 4999.

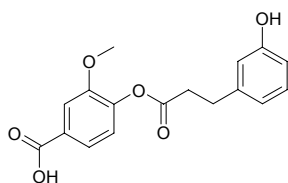
**20652 Talcarpine**

$C_{22}H_{28}N_2O_2$ (352.48). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf: yield = 0.0026%). Ref: 3020.

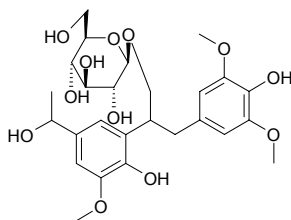


20653 Tamariscina ester A

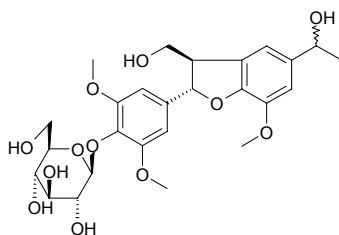
$C_{17}H_{16}O_6$ (316.31). White needles (MeOH), mp 109~110°C. Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4828.

**20654 Tamariscinoside B**

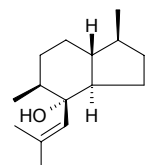
1-Hydroxy-2-[2-hydroxy-3-methoxy-5-(1-hydroxyethyl)-phenyl]-3-(4-hydroxy-3,5-dimethoxy)-propane-1-*O*- β -D-glucuronopyranoside $C_{26}H_{36}O_{12}$ (540.57). White amorphous powder, mp 241~242°C, $[\alpha]_D^{25} = -24^\circ$ ($c = 0.75$, H_2O). Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4835.

**20655 Tamariscinoside C**

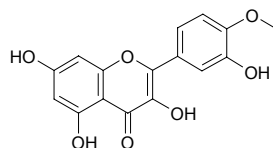
(7*S*,8*R*)-7,8-Dihydro-7-(4-hydroxy-3,5-dimethoxyphenyl)-8-hydroxymethyl-[1'-(7'-hydroxyethyl)-5'-methoxyl] benzofuran-4-*O*- β -D-glucopyranoside $C_{26}H_{34}O_{12}$ (538.55). Colorless powder, easily soluble in MeOH and H_2O , mp 238~240°C. Source: JUAN BAI *Selaginella tamariscina* (whole herb). Ref: 4850.

**20656 Tamariscol**

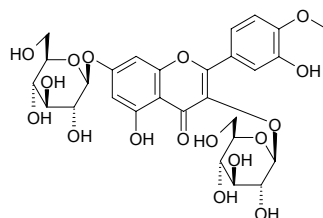
$C_{15}H_{26}O$ (222.37). Source: CHUAN ZHU ER YE TAI *Frullania tamarisci* ssp. *moniliata* [Syn. *Frullania moniliata*]. Ref: 660.

**20657 Tamarixetin**

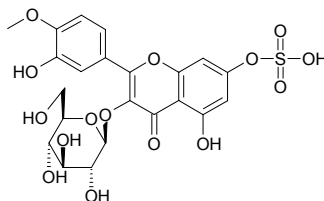
3,5,7,3'-Tetrahydroxy-4'-methoxy flavone $C_{16}H_{12}O_7$ (316.27). Source: HUANG HUA HAO *Artemisia annua*. Ref: 660.

**20658 Tamarixetin 3-*O*- β -D-glucopyranoside 7-*O*- β -D-glucopyranoside**

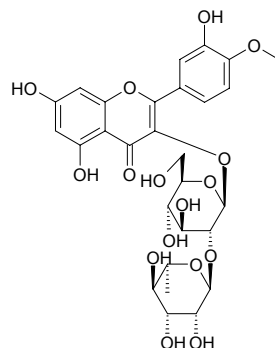
$C_{28}H_{32}O_{17}$ (640.56). Source: *Zanthoxylum* sp. Ref: 2176.

**20659 Tamarixetin 3-glucoside-7-sulphate**

$C_{23}H_{22}O_{15}S$ (538.42). Source: SHUI LIAO *Polygonum hydropiper*. Ref: 660.

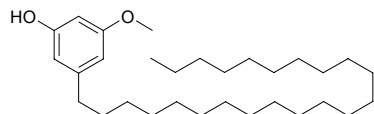
**20660 Tamarixetin 3-*O*-neohesperidoside**

3-[[2-*O*-(6-Deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl]oxy]-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4*H*-1-benzopyran-4-one $C_{28}H_{32}O_{16}$ (624.56). Yellow amorphous powder (MeOH), mp 180~190°C (dec), $[\alpha]_D^{20} = -78^\circ$ ($c = 0.001$, DMSO). Pharm: Nitric oxide production inhibitor inactive ($IC_{50} > 100 \mu g/mL$). Source: SUI ZHUANG BI QIAO JIANG *Costus spicatus* (leaf) Ref: 3898.

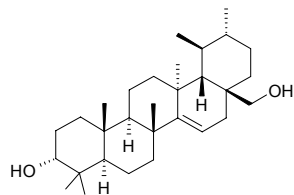


20661 Tamarixinol

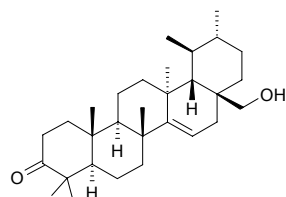
$C_{30}H_{54}O_2$ (446.75). Yellow white granular crystals, mp 77~78°C (anhydrous ethanol), easily soluble in hexane, chloroform and anhydrous ethanol. Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20662 Tamarixol**

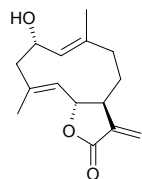
$C_{30}H_{50}O_2$ (442.73). White acicular crystals, mp 252~253°C (acetic ester). Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20663 Tamarixone**

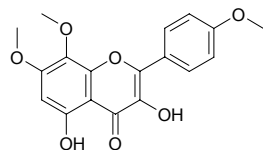
$C_{30}H_{48}O_2$ (440.72). White crystalline powder, mp 238~240°C (anhydrous ethanol). Source: CHENG LIU *Tamarix chinensis*. Ref: 115.

**20664 Tamaulipin A**

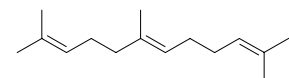
$C_{15}H_{20}O_3$ (248.33). Pharm: Antineoplastic; cytotoxic. Source: MI HUA TUN CAO *Ambrosia confertiflora*, BAI CI GUO TUN CAO *Ambrosia dumosa*. Ref: 658.

**20665 Tambulin**

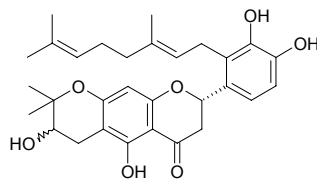
$C_{18}H_{16}O_7$ (344.32). Source: CI HUA JIAO *Zanthoxylum acanthopodium*, SHUANG SE JIN GUANG JU *Rudbeckia bicolor*. Ref: 1521.

**20666 Tanacetene**

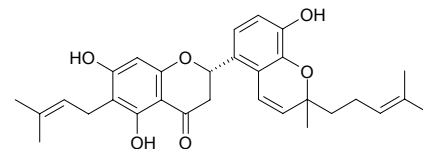
2,6,11-Trimethyl-dodeca-2,6,10-triene $C_{15}H_{26}$ (206.37). Yellowish oil. Source: CHANG YE AI JU *Tanacetum longifolium*. Ref: 1934.

**20667 Tanariflavanone A**

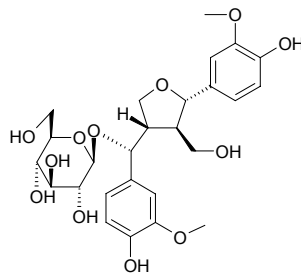
$C_{30}H_{36}O_7$ (508.62). Greenish oil, $[\alpha]_D^{24.6} = +26.8^\circ$ ($c = 0.6$, $CHCl_3$). Source: XUE TONG *Macaranga tanarius* (fallen leaf). Ref: 3062.

**20668 Tanariflavanone B**

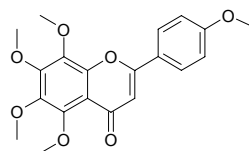
$C_{30}H_{34}O_6$ (490.6). Brownish oil, $[\alpha]_D^{24.6} = +28.2^\circ$ ($c = 0.5$, $CHCl_3$). Source: XUE TONG *Macaranga tanarius* (fallen leaf). Ref: 3062.

**20669 Tanegoside**

$C_{26}H_{34}O_{12}$ (538.55). Source: ZHONG HUA QING NIU DAN *Tinospora sinensis* (stem). Ref: 4292.

**20670 Tangeretin**

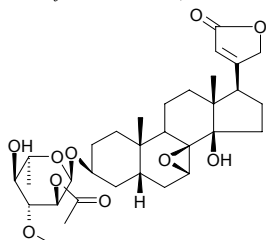
5,6,7,8,4'-Pentamethoxyflavone [481-53-8] $C_{20}H_{20}O_7$ (372.38). Rods or needles (EtOAc), mp 154°C, mp 150~151°C. Pharm: Antineoplastic (induces leucocyte inhibiting growth of HL-60 leukemia cell, dissolves cancer cell); cytotoxic (number of tumor cell lines, antiproliferative, induces differentiation of HL-60 cells *in vitro* in a concentration-dependent manner)^[5369]; cytotoxic (inhibits invasion of mus MO4 cells into embryonic chick heart fragments *in vitro*)^[5369]; antiviral; antibacterial; antifungal; feeding pregnant rat (10mg/kg, death rate of filial generation 83%); smooth muscle relaxant. Source: HUA ZHOU YOU *Citrus grandis* var. *tomentosa*, JIN GAN *Fortunella japonica*, JIN JU *Fortunella margarita*, JU PI *Citrus reticulata*, ZHI SHI *Citrus aurantium*, *Citrus* sp. Ref: 2, 6, 658, 979, 1521, 2194, 2867, 5369.



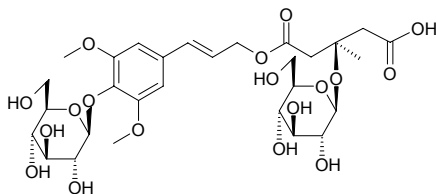
20671 Tanghinin

[25390-16-3] C₃₂H₄₆O₁₀ (590.72). **Pharm:** Cytotoxic (KB, ED₅₀ = 1.29 µg/mL, BC, ED₅₀ = 0.77 µg/mL, NCI-H187, ED₅₀ = 2.3 µg/mL)^[2594], cardiotonic.

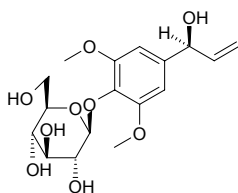
Source: NIU XIN QIE ZI *Cerbera manghas*, TAN MANG GUO *Tanghinia venenifera*. **Ref:** 1521, 2594.

**20672 Tangshenoside I**

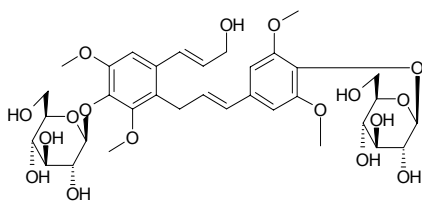
C₂₉H₄₂O₁₈ (678.65). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.073%^[5508]). **Ref:** 2, 660, 5508.

**20673 Tangshenoside II**

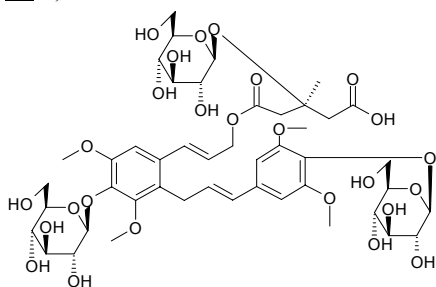
C₁₇H₂₄O₉ (372.38). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**20674 Tangshenoside III**

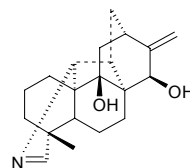
C₃₄H₄₆O₁₇ (726.74). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**20675 Tangshenoside IV**

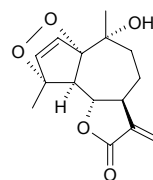
C₄₆H₆₄O₂₆ (1033.01). **Source:** CHUAN DANG SHEN *Codonopsis tangshen*. **Ref:** 2, 660.

**20676 Tangutimine**

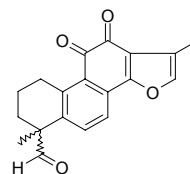
C₂₀H₂₇NO₂ (313.44). Colorless crystals, mp 252~253°C, [α]_D²⁰ = +93.0° (c = 0.166, CH₃OH). **Source:** GAN QING WU TOU *Aconitum tanguticum*. **Ref:** 2203.

**20677 Tanparthin- α -peroxide**

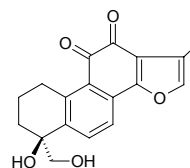
C₁₅H₁₈O₅ (278.31). **Source:** YI KUA *Artemisia myriantha* (aerial parts). **Ref:** 4618.

**20678 Tanshinaldehyde**

Tanshinaldehyde II C₁₉H₁₆O₄ (308.34). Dark red acicular crystals, mp 223~225°C. **Source:** BAI HUA DAN SHEN *Salvia miltiorrhiza* f. *alba*. **Ref:** 185.

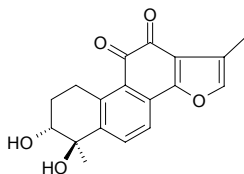
**20679 Tanshindiol A**

(+)-Tanshindiol A [97411-46-6] C₁₈H₁₆O₅ (312.33). Orange red scale substance (EtOAc), mp 222°C; jacinth acicular crystals, mp 222~223°C, [α]_D = +10.5° (c = 0.55, methanol). **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv, MIC = 5 mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, IC₅₀ = 0.2~0.8 µg/mL); restores miocardia force after anoxia (rat, 5 µmol/L, restoring rate = 33.3%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721, 900, 1521.

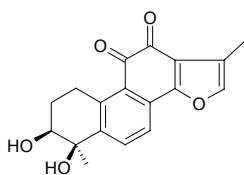


20680 Tanshindiol B

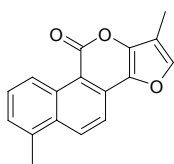
Przewaquinone D [97465-70-8] $C_{18}H_{16}O_5$ (312.33). Jacinth lamellar crystals (ethyl acetate), mp 210°C, $[\alpha]_D = -30.0^\circ$ ($c = 0.02$, chloroform). **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, $IC_{50} = 0.4\sim 1.0\mu\text{g/mL}$); restores miocardia force after anoxia (rat, $25\mu\text{mol/L}$, restoring rate = 34.3%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721, 900.

**20681 Tanshindiol C**

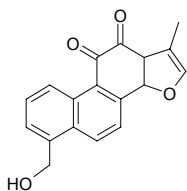
Przewaquinone E [97465-71-9] $C_{18}H_{16}O_5$ (312.33). Jacinth lamellar crystals (ethyl acetate), mp 222°C; 213~215°C. **Pharm:** Tuberculostatic (hmn *Mycobacterium tuberculosis* H37Rv MIC = 5mg/L); cytotoxic (A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, $IC_{50} = 0.3\sim 0.9\mu\text{g/mL}$); restores miocardia force after anoxia (rat, $25\mu\text{mol/L}$, restoring rate = 27.5%). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 660, 721.

**20682 Tanshinlactone**

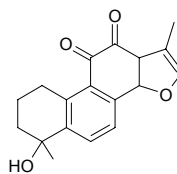
$C_{17}H_{12}O_3$ (264.28). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 2.

**20683 Tanshinol A**

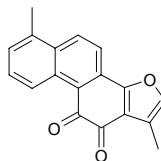
[189290-28-6] $C_{18}H_{12}O_4$ (292.29). Amaranth acicular crystals (dichloromethane), mp 230~235°C. **Pharm:** Induces hyperplasia (hmn A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, $IC_{50} = 0.7\sim 3.0\mu\text{g/mL}$). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721, 1157.

**20684 Tanshinol B**

[319490-69-2] $C_{18}H_{16}O_4$ (296.33). Red acicular crystals (dichloromethane), mp 185~189°C, $[\alpha]_D = 0^\circ$ ($c = 0.1$, methanol). **Pharm:** Induces hyperplasia (hmn A549, SK-OV-3, SK-MEL-2, XF-498, and HCT15, $IC_{50} = 0.8\sim 3.7\mu\text{g/mL}$). **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 721, 1157.

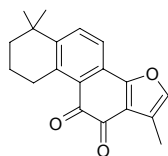
**20685 Tanshinone I**

[568-73-0] $C_{18}H_{12}O_3$ (276.29). mp 233~234°C. **Pharm:** Antibacterial; estrogenic activity; acetylcholinesterase (AChE) inhibitor ($IC_{50} > 50\mu\text{mol/L}$, Argentatin A, $IC_{50} = 42.8\mu\text{mol/L}$)^[4944]; MAO A inhibitor (hmn recombinant MAO A, $IC_{50} = 84\mu\text{mol/L}$)^[5032]; iNOS inhibitor (RAW267.4 cells, LPS-induced, $IC_{50} = 13.5\mu\text{mol/L}$)^[5032]; immunosuppressant (lymphocyte transformation assay control group concanavalin A, $5\mu\text{g/mL}$, InRt = 12%, $20\mu\text{g/mL}$, InRt = 22%, $80\mu\text{g/mL}$, InRt = 37%, control Dexamethasone, $50\mu\text{g/mL}$, InRt = 63%)^[4260]. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: mean content = 0.123%)^[5508], the compound was isolated from the plant by Manzo Nakao et al. in 1941^[5505], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.16%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.035%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = 0.002%)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.002%)^[5508], KA LA BA DAN SHEN *Salvia karabachensis*, LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.021%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.007%)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.024%)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content = 0.009%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.154%)^[5508], YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: mean content = 0.12%)^[5508], ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.090%)^[5508]. **Ref:** 4, 658, 4260, 4538, 4944, 5032, 5505, 5508.



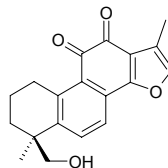
20686 Tanshinone IIa

[568-72-9] $C_{19}H_{18}O_3$ (294.35). mp 198~200°C. **Pharm:** Antibacterial (*Escherichia coli*, MIC = 50 µg/mL; *Staphylococcus aureus* ATCC-25923, MIC = 100 µg/mL; *Bacillus pyocyaneus* ATCC-27853, MIC = 50 µg/mL; hemolytic streptococcus, MIC = 12.5 µg/mL); antithrombotic; used in treatment of myocardial ischemia and myocardial infarction; acetylcholinesterase (AChE) inhibitor ($IC_{50} > 140 \mu\text{mol/L}$, Argentatin A, $IC_{50} = 42.8 \mu\text{mol/L}$)^[4944]; iNOS inhibitor (RAW267.4 cells, LPS-induced, $IC_{50} > 50 \mu\text{mol/L}$)^[5032]; anti-inflammatory (NO, IL-1 β , IL-6 and TNF- α production inhibitor, suppresses expression of iNOS)^[5481]; immunosuppressant (lymphocyte transformation assay, control group Concanavalin A, 5 µg/mL, InRt = -24%, 20 µg/mL, InRt = 35%, 80 µg/mL, InRt = 46%, control Dexamethasone, 50 µg/mL, InRt = 63%)^[4260]. **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content scope = 0.068%~1.52%, mean content = 0.609%)^[5508], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: mean content = 0.942%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.019%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace)^[5508], JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = 0.004%)^[5508], LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.168%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content = 0.118%)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.095%)^[5508], NAN OU DAN SHEN *Salvia sclarea*, NI DAN SHEN *Salvia sinica* (dried root: content = 0.002%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.462%)^[5508], YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.193%)^[5508], ZHAN LONG JIAN *Veronicastrum sibiricum* (aerial parts), ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.398%)^[5508]. **Ref:** 2, 4, 658, 4260, 4538, 4909, 4944, 5032, 5481, 5501, 5508.

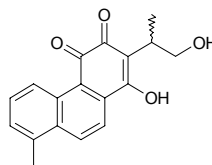
**20687 Tanshinone IIb**

$C_{19}H_{18}O_4$ (310.35). mp 200~204°C. **Pharm:** Antibacterial (*Escherichia coli*, MIC = 25 µg/mL; *Staphylococcus aureus* ATCC-25923, MIC = 50 µg/mL; *Bacillus pyocyaneus* ATCC-27853, MIC = 25 µg/mL; hemolytic streptococcus, MIC = 25 µg/mL; *Staphylococcus aureus* and its drug-resistant strains). **Source:** DAN SHEN *Salvia miltiorrhiza* (dried root: content = 0.020%)^[5508], GAN XI SHU WEI CAO *Salvia przewalskii* (dried root: content = 0.015%)^[5508], HONG GEN CAO *Salvia prionitis* (dried root: content = 0.001%)^[5508], HUANG HUA SHU WEI CAO *Salvia flava* (dried root: content = trace^[5508]), JI YE SHU WEI CAO *Salvia bulleyana* (dried root: content = trace^[5508]), LI SE SHU WEI CAO *Salvia castanea* (dried root: content = 0.003%)^[5508], MAO DI HUANG SHU WEI CAO *Salvia digitaloides* (dried root: content =

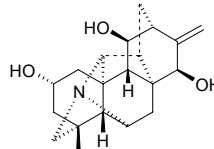
0.001%)^[5508], NAN DAN SHEN *Salvia bowleyana* (dried root: content = 0.006%)^[5508], NI DAN SHEN *Salvia sinica* (dried root: content = 0.001%)^[5508], SAN YE SHU WEI CAO *Salvia trijuga* (dried root: content = 0.034%)^[5508], YUN NAN SHU WEI CAO *Salvia yunnanensis* (dried root: content = 0.015%)^[5508], ZI DAN SHEN *Salvia przewalskii* var. *mandarinorum* (dried root: content = 0.026%)^[5508]. **Ref:** 2, 4, 658, 4909, 5508.

**20688 Tanshinone VI**

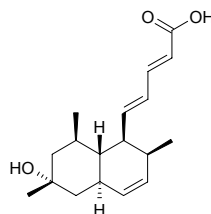
[121064-74-2] $C_{18}H_{16}O_4$ (296.32). Jacinth acicular crystals, mp 185~189°C (dec), $[\alpha]_D^{30} = +47.0^\circ$ ($c = 0.1$, chloroform). **Pharm:** Protects cardiac muscle from lack of blood; restores miocardia force after anoxia. **Source:** DAN SHEN *Salvia miltiorrhiza*. **Ref:** 932, 1162.

**20689 Tanwusine**

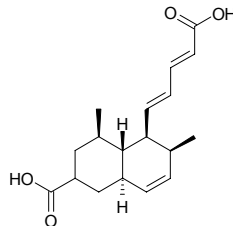
$C_{20}H_{27}NO_3$ (329.44). **Source:** GAN QING WU TOU *Aconitum tanguticum*. **Ref:** 660.

**20690 Tanzawaic acid E**

$C_{18}H_{26}O_3$ (290.41). Yellowish oil, $[\alpha]_D^{20} = +45.5^\circ$ ($c = 0.110$, MeOH). **Source:** *Penicillium steckii*. **Ref:** 3960.

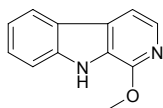
**20691 Tanzawaic acid F**

$C_{18}H_{24}O_4$ (304.39). Yellowish oil, $[\alpha]_D^{20} = +10.0^\circ$ ($c = 0.040$, MeOH). **Source:** *Penicillium steckii*. **Ref:** 3960.

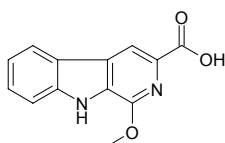


20692 Taraxacine A

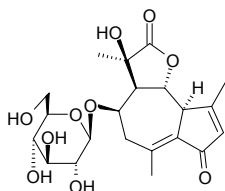
$C_{12}H_{10}N_2O$ (198.23). Pale yellow syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20693 Taraxacine B**

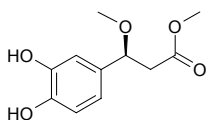
$C_{13}H_{10}N_2O_3$ (242.24). Pale yellow syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20694 Taraxafolide**

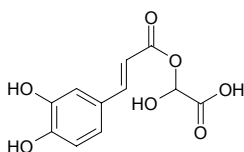
$C_{21}H_{28}O_{10}$ (440.45). Colorless oil, $[\alpha]_D = -9.47^\circ$ ($c = 0.09$, H_2O). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.

**20695 Taraxafolin**

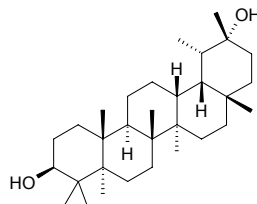
$C_{11}H_{14}O_5$ (226.23). Colorless syrup. Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh aerial parts). Ref: 4345.

**20696 (+)-Taraxafolin B**

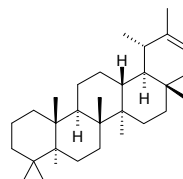
$C_{11}H_{10}O_7$ (254.20). Brown powder (MeOH). mp $> 280^\circ C$, $[\alpha]_D = +130^\circ$ ($c = 0.56$, H_2O). Pharm: Antioxidant (DPPH scavenger, weaker than control Vitamin E). Source: TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root). Ref: 4488.

**20697 Taraxastane-3 β ,20 α -diol**

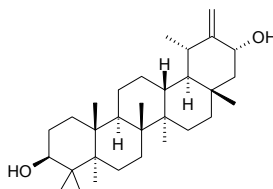
$C_{30}H_{52}O_2$ (444.75). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (104.1 \pm 4.3) \mu g/mL$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu g/mL$; B16, $IC_{50} = (79.7 \pm 5.6) \mu g/mL$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu g/mL$; HeLa, $IC_{50} = (71.8 \pm 4.4) \mu g/mL$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu g/mL$); antibacterial (*Bacillus subtilis*, IZD = $(13.7 \pm 0.7) mm$, control Chloramphenicol, IZD = $(14.5 \pm 1.1) mm$; *Escherichia coli*, IZD = $(14.8 \pm 0.8) mm$, Chloramphenicol, IZD = $(14.9 \pm 1.3) mm$; *Staphylococcus aureus*, IZD = $(14.5 \pm 1.6) mm$, Chloramphenicol, IZD = $(15.1 \pm 1.2) mm$). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

**20698 ψ -Taraxastene**

20-Taraxastene $C_{30}H_{50}$ (410.73). Source: SHUI LONG GU *Polypodium niponicum*. Ref: 660.

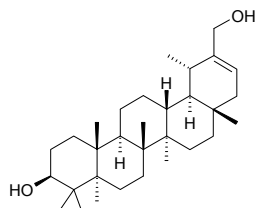
**20699 Taraxast-20(30)-ene-3 β ,21 α -diol**

$C_{30}H_{50}O_2$ (442.73). Colorless crystals, mp $256 \sim 258^\circ C$ ($CHCl_3$ -MeOH), $[\alpha]_D^{25} = +225^\circ$ ($c = 0.09$, $CHCl_3$). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (125.3 \pm 4.7) \mu g/mL$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu g/mL$; B16, $IC_{50} = (87.4 \pm 4.7) \mu g/mL$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu g/mL$; HeLa, $IC_{50} = (98.7 \pm 2.2) \mu g/mL$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu g/mL$); antibacterial (*Bacillus subtilis*, IZD = $(11.5 \pm 0.7) mm$, control Chloramphenicol, IZD = $(14.5 \pm 1.1) mm$; *Escherichia coli*, IZD = $(14.5 \pm 1.9) mm$, Chloramphenicol, IZD = $(14.9 \pm 1.3) mm$; *Staphylococcus aureus*, IZD = $(8.5 \pm 1.9) mm$, Chloramphenicol, IZD = $(15.1 \pm 1.2) mm$). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

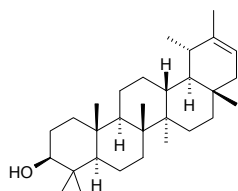


20700 Taraxast-20-ene-3 β ,30-diol

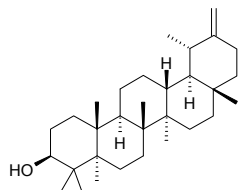
$C_{30}H_{50}O_2$ (442.73). Colorless crystals, mp 198~200°C (CHCl₃-MeOH), $[\alpha]_D^{25} = +116^\circ$ ($c = 0.35$, CHCl₃). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (176.3 \pm 2.4) \mu\text{g/mL}$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu\text{g/mL}$; B16, $IC_{50} = (20.1 \pm 2.6) \mu\text{g/mL}$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu\text{g/mL}$; HeLa, $IC_{50} = (86.3 \pm 5.0) \mu\text{g/mL}$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu\text{g/mL}$); antibacterial (*Bacillus subtilis*, IZD = (14.0 ± 1.0) mm, control Chloramphenicol, IZD = (14.5 ± 1.1) mm; *Escherichia coli*, IZD = (13.7 ± 1.4) mm, Chloramphenicol, IZD = (14.9 ± 1.3) mm; *Staphylococcus aureus*, IZD = (14.7 ± 1.5) mm, Chloramphenicol, IZD = (15.1 ± 1.2) mm). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

**20701 Taraxast-20-ene-3 β -ol**

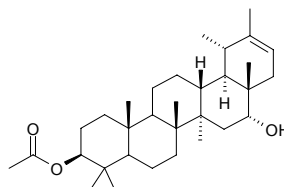
$C_{30}H_{50}O$ (426.73). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (131.8 \pm 1.9) \mu\text{g/mL}$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu\text{g/mL}$; B16, $IC_{50} = (86.4 \pm 4.5) \mu\text{g/mL}$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu\text{g/mL}$; HeLa, $IC_{50} = (123.6 \pm 2.2) \mu\text{g/mL}$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu\text{g/mL}$); antibacterial (*Bacillus subtilis*, IZD = (12.0 ± 0.6) mm, control Chloramphenicol, IZD = (14.5 ± 1.1) mm; *Escherichia coli*, IZD = (13.6 ± 0.6) mm, Chloramphenicol, IZD = (14.9 ± 1.3) mm; *Staphylococcus aureus*, IZD = (9.1 ± 1.4) mm, Chloramphenicol, IZD = (15.1 ± 1.2) mm). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

**20702 Taraxast-20(30)-ene-3 β -ol**

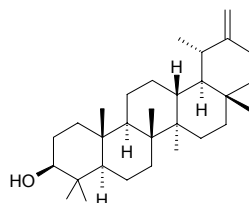
$C_{30}H_{50}O$ (426.73). Pharm: Cytotoxic (SMMC-7721, $IC_{50} = (142.7 \pm 3.3) \mu\text{g/mL}$, control Vincristine, $IC_{50} = (63.2 \pm 1.8) \mu\text{g/mL}$; B16, $IC_{50} = (98.2 \pm 3.1) \mu\text{g/mL}$, Vincristine, $IC_{50} = (70.7 \pm 2.8) \mu\text{g/mL}$; HeLa, $IC_{50} = (117.3 \pm 4.6) \mu\text{g/mL}$, Vincristine, $IC_{50} = (67.2 \pm 2.2) \mu\text{g/mL}$); antibacterial (*Bacillus subtilis*, IZD = (11.1 ± 1.2) mm, control Chloramphenicol, IZD = (14.5 ± 1.1) mm; *Escherichia coli*, IZD = (12.8 ± 1.3) mm, Chloramphenicol, IZD = (14.9 ± 1.3) mm; *Staphylococcus aureus*, IZD = (8.3 ± 0.5) mm, Chloramphenicol, IZD = (15.1 ± 1.2) mm). Source: *Saussurea petrovii* (whole herb). Ref: 5219.

**20703 Taraxaster-20-en-3 β ,16 α -diol-3-acetate**

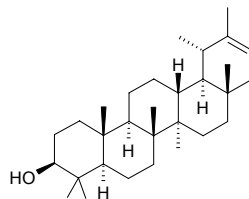
$C_{32}H_{52}O_3$ (484.77). Colorless acicular crystals (CHCl₃), mp 244~246°C, $[\alpha]_D^{20} = -32.0^\circ$ ($c = 0.1$, CHCl₃). Source: BAO JING KU MAI CAI *Ixeris sonchifolia*. Ref: 2110.

**20704 Taraxasterol**

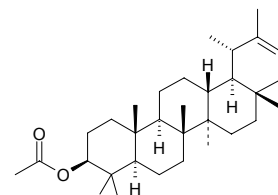
[1059-14-9] $C_{30}H_{50}O$ (426.73). Source: JIN FEI CAO *Inula japonica*, MU XIANG *Saussurea lappa* [Syn. *Aucklandia lappa*], PU GONG YING *Taraxacum mongolicum*, XUAN FU HUA *Inula britannica*, YAO YONG PU GONG YING *Taraxacum officinale*, ZHONG GUO XUAN FU HUA *Inula britannica* var. *chinensis*. Ref: 2, 660.

**20705 ψ -Taraxasterol**

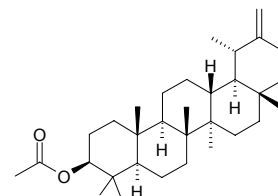
$C_{30}H_{50}O$ (426.73). mp 217~219°C. Source: YAO YONG PU GONG YING *Taraxacum officinale*. Ref: 6, 660.

**20706 ψ -Taraxasteryl acetate**

$C_{32}H_{52}O_2$ (468.77). Source: DA JI⁽⁴⁾ *Cirsium japonicum*, XIAO JI *Cirsium setosum* [Syn. *Cerratula setosa*; *Cirsium segetum*; *Cephalanoplos segetum*], XU DUAN JU *Sonchus asper* [Syn. *Sonchus oleraceus* var. *asper*]. Ref: 660.

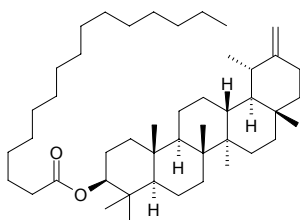
**20707 Taraxasteryl acetate**

$C_{32}H_{52}O_2$ (468.77). mp 256~257°C. Source: CHENG GAN CAO *Eupatorium japonicum*, DA JI⁽⁴⁾ *Cirsium japonicum*. Ref: 6.

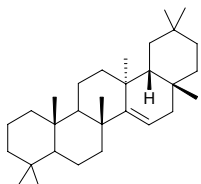


20708 Taraxasteryl palmitate

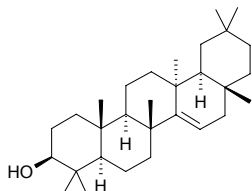
$C_{46}H_{80}O_2$ (665.15). Source: CHENG GAN CAO *Eupatorium japonicum*, E BU SHI CAO *Centipeda minima*, PEI LAN *Eupatorium fortunei*, ZAN SHI LONG DAN *Gentiana thunbergii*. Ref: 6, 660.

**20709 Taraxer-14-ene**

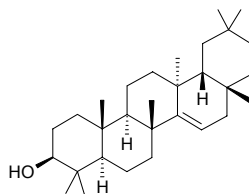
$C_{30}H_{50}$ (410.73). Source: DAO LUAN YE FU SHI JUE *Lemnaphyllum microphyllum* var. *obovatum*, SHUI LONG GU *Polypodium niponicum*. Ref: 660.

**20710 Taraxer-14-en-3β-ol**

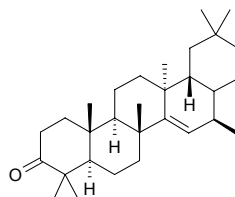
$C_{30}H_{50}O$ (426.73). mp 278~280°C, $[\alpha]_D^{20} = +2^\circ$. Pharm: Anti-inflammatory (*in vivo*, mouse ear edema induced by TPA, 0.5mg/ear, orl, InRt = 57.06%). Source: JIA MA SHU *Sterculia foetida* (leaf). Ref: 4924.

**20711 Taraxerol**

[127-22-0] $C_{30}H_{50}O$ (426.73). mp 282~283°C. Pharm: Antiulcerative; inhibits gastric acid secretion; cytotoxic inactive (*in vitro*, HeLa, Vero, K562, Raji, Wish, and Calu1 tumor cell lines, $IC_{50} > 100\mu\text{mol/L}$)^[3057]; cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 16.6\text{mg/mL}$)^[5379]; inhibits degranulation and release of β -hexosaminidase (RBL-2H3 cells, 100 $\mu\text{mol/L}$, InRt = $(-3.0 \pm 0.9)\%$, control Curcumin, 100 $\mu\text{mol/L}$, InRt = $(62.6 \pm 1.0)\%$, did not affect the enzyme activity of β -hexosaminidase)^[4163]; antioxidant inactive (*in vitro*, DPPH scavenger, $IC_{50} > 500\mu\text{mol/L}$; control Vitamin E, $IC_{50} = 20.1\mu\text{mol/L}$)^[4784]. Source: BIAN TAO *Mangifera persiciformis*, CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0117%^[5508]), DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0100%^[5508]), JIN CAO *Hedyotis acutangula*, MU SHU DI SHANG BU FEN *Manihot esculenta*, QIU HUA DANG SHEN *Codonopsis subglobosa* (dried root: content = 0.0050%^[5508]), QUE MEI TENG *Sageretia theezans* [Syn. *Sageretia thea*], RI BEN AN XI XIANG JING PI *Styrax japonica* (stem cortex: yield = 0.00073%dw)^[4787], SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: mean content = 0.0276%^[5508]), YANG MEI SHU PI *Myrica rubra* (bark: yield = 0.014%), YAO YONG PU GONG YING *Taraxacum officinale*, YI HE GUO *Ventilago leiocarpa* (stem)^[3057], *Diospyros* sp., *Lithocarpus* sp., *Canarium* sp. Ref: 2, 515, 550, 658, 660, 3057, 4163, 4787, 5379, 5508.

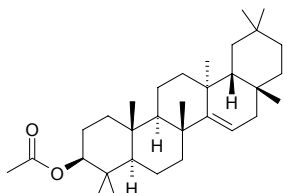
**20712 Taraxerone**

$C_{30}H_{48}O$ (424.72). mp 242~244°C. Pharm: Cytotoxic inactive (A2780 ovarian cancer cell line, $IC_{50} = 25.8\text{mg/mL}$)^[5379]. Source: FU RONG JU GEN *Crossostephium chinense*, HUO YANG LE *Euphorbia antiquorum*, JU QU *Cichorium intybus*, MU SHU DI SHANG BU FEN *Manihot esculenta*. Ref: 6, 620, 5379.

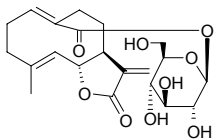


20713 Taraxeryl acetate

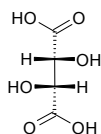
$C_{32}H_{52}O_2$ (468.77). mp 301~302°C (C_6H_6 -EtOAc), 304~305°C. Source: BI LI *Ficus pumila*, CHUAN DANG SHEN *Codonopsis tangshen* (dried root: content = 0.0077%^[5508]), CI SAN JIA *Acanthopanax trifoliatum*, DANG SHEN *Codonopsis pilosula* (dried root: mean content = 0.0041%^[5508]), FU SANG YE *Hibiscus rosa-sinensis*, FU RONG JU GEN *Crossostephium chinense*, MAO LIAN HAO *Artemisia vestita*, QIU HUA DANG SHEN *Codonopsis subglobosa*, SU HUA DANG SHEN *Codonopsis pilosula* var. *modesta* [Syn. *Codonopsis modesta*] (dried root: content = 0.0075%^[5508]), XIE WEI JU *Koelpinia linearis* (aerial parts). Ref: 2, 6, 474, 660, 3912, 5508.

**20714 Taraxinic acid-1'-O-β-D-glucopyranoside**

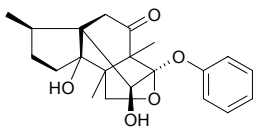
$C_{21}H_{28}O_9$ (424.45). Colorless needles (EtOH-Et₂O), mp 186~188°C, $[\alpha]_D^{22} = -57.7^\circ$ (CH_3OH , $c = 0.45$). Pharm: Antiulcer (gastricoma, mus *in vivo*, protects gastric mucosa, in dose 80mg/kg orl effectly inhibits stomach damaga due to aspirin). Source: DAO LUAN YE PU GONG YING GEN *Taraxacum obovatum*, TAI WAN PU GONG YING *Taraxacum formosanum* (fresh root), YUAN JING HUAN YANG SHEN *Crepis napifera*. Ref: 2216, 4488, 5357.

**20715 Tartaric acid**

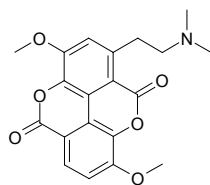
2,3-Dihydroxybutanedioic acid [526-83-0] $C_4H_6O_6$ (150.09). mp (L) 170°C. Source: CU LIU GUO *Hippophae rhamnoides*, DA ZAO *Ziziphus jujuba*, DU ZHONG *Eucommia ulmoides*, HU ZHANG YE *Polygonum cuspidatum*, PU⁽²⁾ TAO *Vitis vinifera*, REN SHEN *Panax ginseng* [Syn. *Panax schinseng*], SHAN ZHU YU *Cornus officinalis* [Syn. *Macrocarpium officinale*], SUAN JIAO *Tamarindus indica*, *Pelargonium* sp. Ref: 2, 660.

**20716 Tashironin**

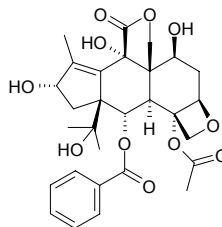
$C_{21}H_{26}O_5$ (358.44). Pharm: Neurotrophic bioassay inactive (primary culture of rat cortical neurons, 0.1~10μmol/L). Source: *Illicium merrillianum* (pericarp). Ref: 3046.

**20717 Taspine**

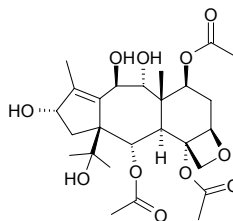
Thaspine $C_{20}H_{19}NO_6$ (369.38). Pharm: Antibacterial (*Mycobacterium tuberculosis*, EC = 1:100000); antineoplastic (RNA tumor virus); anti-inflammatory (rat, swollen foot model caused by carrageenan); LD₅₀ (orl, chloride) = 518mg/kg. Source: DE LA KE BA DOU *Croton draconoide*, HONG MAO QI *Leontice robustum*, LAI KE BA DOU *Croton lechleri*, SI MI SHI MU DAN CAO *Leontice smirnowii*. Ref: 6, 658, 660.

**20718 Tasumatrol A**

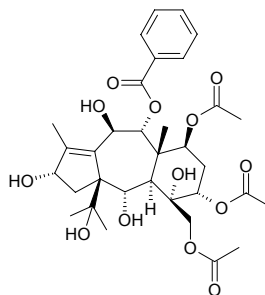
$C_{29}H_{34}O_{11}$ (558.59). Amorphous solid, $[\alpha]_D^{25} = -12^\circ$ ($c = 0.1$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4359.

**20719 Tasumatrol B**

$C_{26}H_{38}O_{11}$ (526.59). Amorphous solid, $[\alpha]_D^{25} = -7.6^\circ$ ($c = 0.2$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4359.

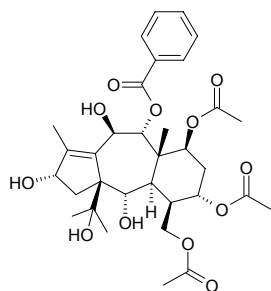
**20720 Tasumatrol E**

$C_{33}H_{44}O_{13}$ (648.71). Colorless powder, $[\alpha]_D^{25} = +36^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (*in vitro*, 30μg/mL: A498, InRt = 100%; NCI-H226, InRt = 84.8%; A549, InRt = 91.3%; PC3, InRt = 94.7%; control Taxol, 30μg/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.

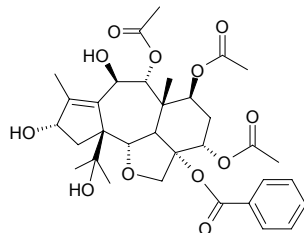


20721 Tasumatrol F

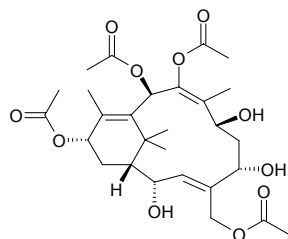
$C_{33}H_{44}O_{12}$ (632.71). Colorless powder, $[\alpha]_D^{25} = +28^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (*in vitro*, 30 $\mu\text{g/mL}$: A498, InRt = 83.0%; NCI-H226, InRt = 78.5%; A549, InRt = 72.6%; PC3, InRt = 95.0%; control Taxol, 30 $\mu\text{g/mL}$: A498, InRt = 98.2%; NCI-H226, InRt = 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.

**20722 Tasumatrol G**

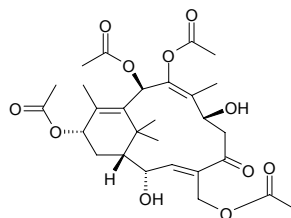
$C_{33}H_{42}O_{12}$ (630.70). Colorless powder, $[\alpha]_D^{25} = -32^\circ$ ($c = 0.1$, MeOH). Pharm: Cytotoxic (*in vitro*, 30 $\mu\text{g/mL}$: A498, InRt = 15.3%; NCI-H226, InRt = 78.9%; A549, InRt = 24.1%; PC3, InRt = 58.9%; control Taxol, 30 $\mu\text{g/mL}$: A498, InRt = 98.2%; NCI-H226, InRt = 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.

**20723 Tasumatrol M**

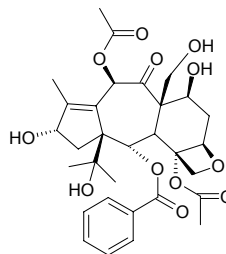
$C_{28}H_{40}O_{11}$ (552.62). Colorless powder, $[\alpha]_D^{25} = +43^\circ$ ($c = 0.2$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4479.

**20724 Tasumatrol N**

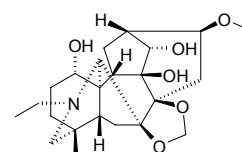
$C_{28}H_{38}O_{11}$ (550.61). Colorless powder, $[\alpha]_D^{25} = +14^\circ$ ($c = 0.2$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4479.

**20725 Tasumatrol O**

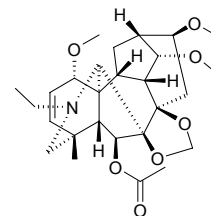
$C_{31}H_{38}O_{12}$ (602.64). Colorless powder, $[\alpha]_D^{25} = -40^\circ$ ($c = 0.2$, MeOH). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig). Ref: 4479.

**20726 Tatsidine**

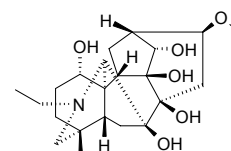
$C_{23}H_{35}NO_6$ (421.54). Source: KANG DING CUI QUE HUA *Delphinium tatsienense*. Ref: 660.

**20727 Tatsiensine**

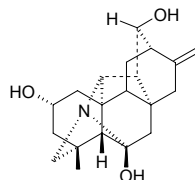
$C_{27}H_{39}NO_7$ (489.61). White amorphous powder. Source: QIN LING CUI QUE HUA *Delphinium giraldii*, KANG DING CUI QUE HUA *Delphinium tatsienense*, ZHAN MAO CUI QUE HUA *Delphinium kamaonense* var. *glabrescens*. Ref: 660, 2506.

**20728 Tatsinine**

$C_{22}H_{35}NO_6$ (409.53). Source: KANG DING CUI QUE HUA *Delphinium tatsienense*. Ref: 660.

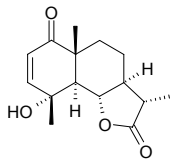
**20729 Tatsirine**

$C_{20}H_{27}NO_3$ (329.44). Source: KANG DING CUI QUE HUA *Delphinium tatsienense*. Ref: 660.

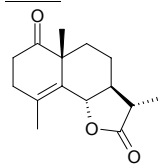


20730 Tauremisin A

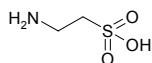
Vulgarin; Tauremisin; Judaicin $C_{15}H_{20}O_4$ (264.32). Colorless acicular crystals (ethanol), mp 174~175°C, $[\alpha]_{546nm}^{27} = +48.7^\circ$ ($c = 3.86$, chloroform). Pharm: Antineoplastic; cardiogenic; cytotoxic; diuretic (rat, orl, 10mg/kg, amount of urine increases 44%); CNS activity (increases coronary flow and slows heart rate, cat and rbt, 1mg/kg iv). Source: NIU HAO *Artemisia taurica*, BEI AI *Artemisia vulgaris*, LU DE WEI HAO *Artemisia ludoviciana*. Ref: 660, 661.

**20731 Taurin**

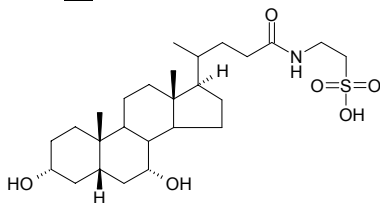
[23522-05-6] $C_{15}H_{20}O_3$ (248.32). Colorless acicular crystals, mp 110~113°C. Source: MAO LIAN HAO *Artemisia vestita*. Ref: 474.

**20732 Taurine**

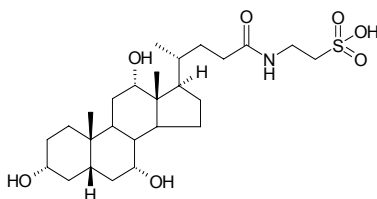
[107-35-7] $C_2H_7NO_3S$ (125.15). mp 317°C (dec), 328°C. Pharm: Antiarrhythmic; antibacterial (*Staphylococcus* spp.); anti-inflammatory; antipyretic; cardiogenic; choleric; antihepatotoxic; hypoglycemic (rbt, iv; dog, orl); antihypertensive (rat, cat and rbt, injection in ventricle); skeletal muscle relaxant; antagonist to muscle rigidity. Source: QUAN XIE *Buthus martensi*, GOU QI ZI *Lycium chinense*, NIU HUANG *Bos taurus domesticus*; *Bubalus bubalis* (gallstone: content scope = 0.54%~0.89%^[5501]). Ref: 2, 658, 660, 5501.

**20733 Taurochenodeoxycholic acid**

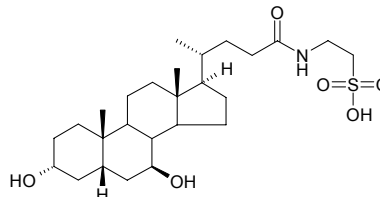
$C_{26}H_{45}NO_6S$ (499.72). Source: XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 2.

**20734 Taurocholic acid**

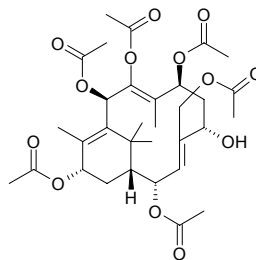
Cholaic acid; Cholytaurine; N-Choloyl-taurine [81-24-3] $C_{26}H_{45}NO_7S$ (515.72). mp 125°C (dec). Pharm: Lipase accelerator; Choleric (bile secretion promotor). Source: XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 2, 658.

**20735 Tauroursodeoxycholic acid**

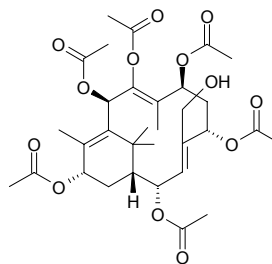
$C_{26}H_{45}NO_6S$ (499.72). Source: XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 1496, 1521.

**20736 Taxachitriene A**

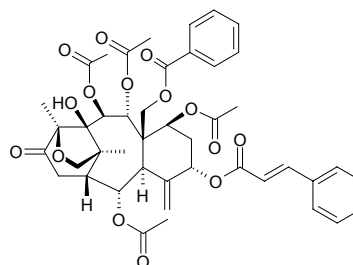
$C_{32}H_{44}O_{13}$ (636.70). mp 99~101°C, $[\alpha]_D = -9.9^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20737 Taxachitriene B**

$C_{32}H_{44}O_{13}$ (636.70). mp 22.5~22.7°C, $[\alpha]_D = +29^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20738 Taxacin**

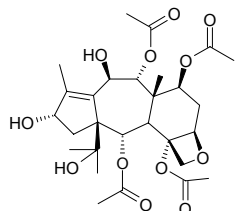
$C_{44}H_{48}O_{15}$ (816.86). Source: ZI SHAN *Taxus cuspidata* (seed). Ref: 660, 662.



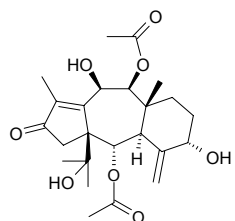
20739 Taxacustin

10,13-Deacetyl-abeo-baccatin IV $C_{28}H_{40}O_{12}$ (568.62). mp 225~227°C, $[\alpha]_D = -38.4^\circ$ (MeOH); mp 220~222°C, $[\alpha]_D = -34^\circ$ (MeOH). **Pharm:** Cytotoxic (*in vitro*, 30 $\mu\text{g/mL}$: A498, InRt = 21.7%; NCI-H226, InRt = 19.9%; A549, InRt = 27.1%; PC3, InRt = 1.9%; control Taxol, 30 $\mu\text{g/mL}$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800].

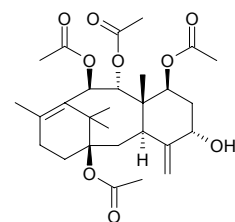
Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800], XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, ZI SHAN *Taxus cuspidata*. **Ref:** 291, 662, 4800.

**20740 Taxacustone**

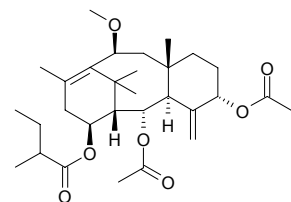
$C_{24}H_{34}O_8$ (450.53). $[\alpha]_D = -14.6^\circ$ (CHCl_3), mp 268~270°C. **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20741 Taxa-4(20),11-diene-5 α -hydroxy-1 β ,7 β ,9 α ,10 β -tetraacetate**

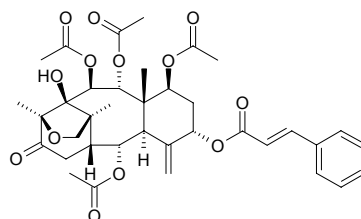
$C_{28}H_{40}O_9$ (520.63). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20742 Taxa-4(20),11-diene-10 β -methoxy-2 α ,5 α -diacetoxy-14 β -(α -methyl) butyrate**

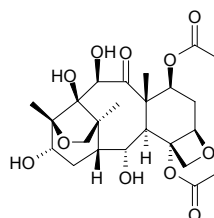
$C_{30}H_{46}O_7$ (518.70). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

**20743 Taxagifin**

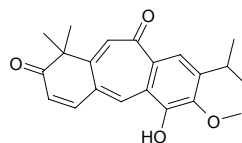
[81489-69-2] $C_{37}H_{44}O_{13}$ (696.76). Colorless needles. **Pharm:** Cytotoxic (L1210, $IC_{50} = 1.3 \mu\text{g/mL}$; KB, $IC_{50} = 0.86 \mu\text{g/mL}$). **Source:** HONG DOU SHAN *Taxus chinensis*, JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), JIANG GUO ZI SHAN *Taxus baccata*, ZI SHAN *Taxus cuspidata* (seed). **Ref:** 660, 662, 1775, 3958.

**20744 Taxagifin III**

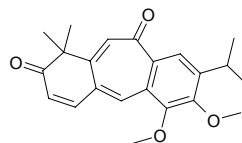
$C_{24}H_{34}O_{11}$ (498.53). $[\alpha]_D = +31.4^\circ$ (MeOH), mp 246~247°C. **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**20745 Taxamairin A**

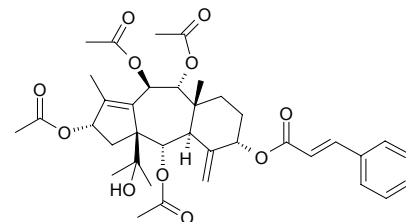
[110300-76-0] $C_{21}H_{22}O_4$ (338.40). Golden crystals (ethanol), mp 223~224°C. **Pharm:** Antineoplastic (hepatocarcinoma, $IC_{50} = 30.21 \mu\text{g/mL}$). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 968, 1183.

**20746 Taxamairin B**

[110300-77-1] $C_{22}H_{24}O_4$ (352.43). mp 138~139°C (ethanol). **Pharm:** Antineoplastic (hepatocarcinoma, $IC_{50} = 26.78 \mu\text{g/mL}$). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*. **Ref:** 968, 1183.

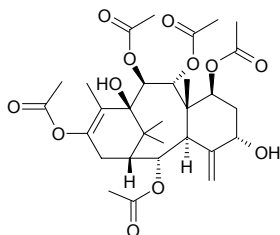
**20747 Taxamedin A**

$C_{37}H_{46}O_{11}$ (666.77). **Source:** ZA JIAO JIE ZHI HONG DOU SHAN *Taxus media*. **Ref:** 662.

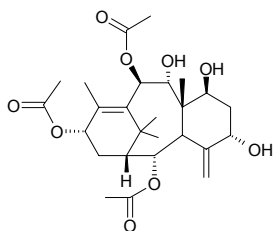


20748 Taxane 1

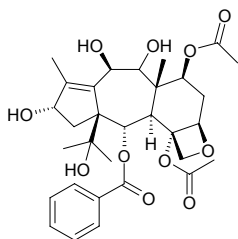
2,7,9,10,13-Pentaacetyl-4(20),12-taxadiene-2,5,7,9,10,11,13-heptol
[247116-45-6] $C_{30}H_{42}O_{12}$ (594.66). [Source](#): JIA NA DA HONG DOU SHAN
Taxus canadensis. [Ref](#): 694.

**20749 Taxane 2**

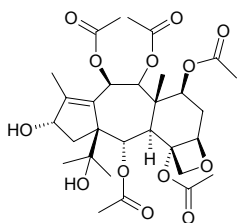
2,10,13-Triacetyl-4(20),11-taxadiene-2,5,7,9,10,13-hexol [247116-46-7]
 $C_{26}H_{38}O_9$ (494.59). [Source](#): JIA NA DA HONG DOU SHAN *Taxus*
canadensis. [Ref](#): 694.

**20750 Taxane 3**

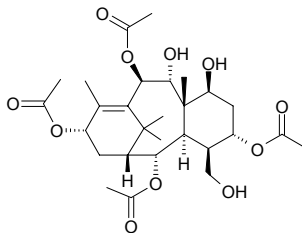
Taxuspinanane F [205436-31-3] $C_{31}H_{40}O_{11}$ (588.66). [Source](#): JIA NA DA
HONG DOU SHAN *Taxus canadensis*. [Ref](#): 694.

**20751 Taxane 4**

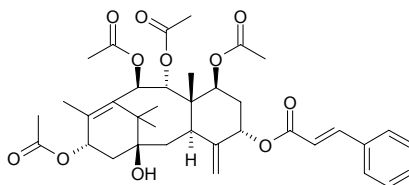
Taxayuntin H [214211-87-7] $C_{30}H_{42}O_{13}$ (610.66). [Source](#): JIA NA DA HONG
DOU SHAN *Taxus canadensis*. [Ref](#): 694.

**20752 Taxane 5**

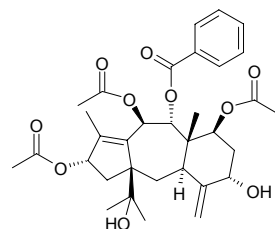
2,5,10,13-Tetraacetyl-11-taxene-2,5,7,9,10,13,20-heptol [247116-47-8]
 $C_{28}H_{42}O_{11}$ (554.64). [Source](#): JIA NA DA HONG DOU SHAN *Taxus*
canadensis. [Ref](#): 694.

**20753 Taxawallin A**

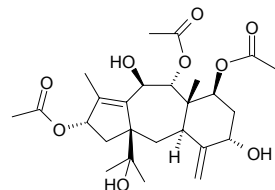
1-Hydroxy-2-deacetoxytaxinine J $C_{37}H_{46}O_{11}$ (666.77). mp 122~124°C, $[\alpha]_D = +64^\circ$ (CHCl₃), $[\alpha]_D = +60.45^\circ$ (CHCl₃), [Source](#): XI MA LA YA HONG DOU
SHAN *Taxus wallichiana*. [Ref](#): 662.

**20754 Taxawallin D**

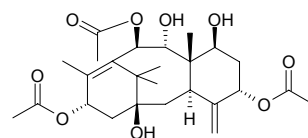
9-Benzoyl-2-deacetoxy-9-deacetyl-10-debenzoyl-10,13-diacetyltaxchinin A
 $C_{33}H_{42}O_{10}$ (598.70). mp 122~124°C. [Source](#): XI MA LA YA HONG DOU
SHAN *Taxus wallichiana*. [Ref](#): 662.

**20755 Taxawallin F**

13-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A $C_{26}H_{38}O_9$ (494.59). mp
124~125°C. [Source](#): XI MA LA YA HONG DOU SHAN *Taxus wallichiana*.
[Ref](#): 662.

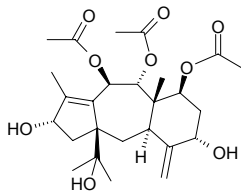
**20756 Taxawallin G**

1 β ,7 β ,9 α -Trihydroxy-5 α ,10 β ,13 α -triacetoxytaxa-4(20),11-diene $C_{26}H_{38}O_9$
(494.59). mp 270°C. [Source](#): XI MA LA YA HONG DOU SHAN *Taxus*
wallichiana. [Ref](#): 662.

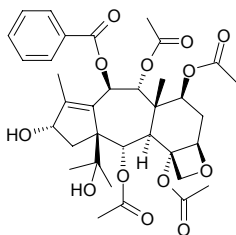


20757 Taxawallin H

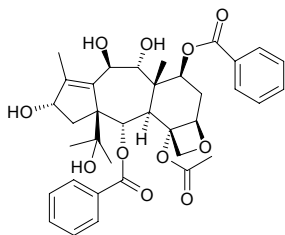
10-Acetyl-2-deacetoxy-10-debenzoyltaxchinin A $C_{26}H_{38}O_9$ (494.59). mp 72~74°C. Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. Ref: 662.

**20758 Taxayunnansin A**

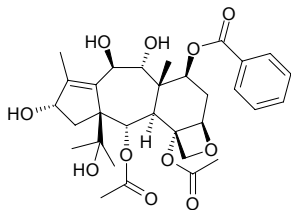
Taxayuntin $C_{35}H_{44}O_{13}$ (672.73). Colorless massive crystals, mp 249~250°C (Me₂CO), $[\alpha]_D^{27} = -53.3^\circ$ (methanol), mp 225~226°C, $[\alpha]_D = -38^\circ$ (MeOH). Source: XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 300, 662.

**20759 Taxayuntin A**

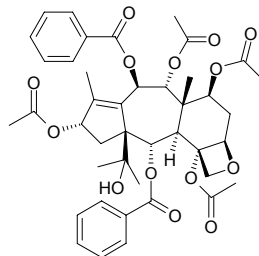
2 α ,7 β ,9 α -Triacetyl-2 α ,7 β -dibenzoyl-10 β -debenzoyltaxayuntin $C_{36}H_{42}O_{11}$ (650.73). White powder, mp 160~163°C, $[\alpha]_D^{22} = \pm 0^\circ$ ($c = 0.05$, chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662.

**20760 Taxayuntin B**

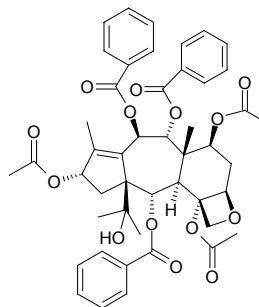
2 α -Debenzoyl-2 α -acetyl taxayuntin $C_{31}H_{40}O_{11}$ (588.66). White acicular crystals, mp 225~228°C (methanol), $[\alpha]_D^{12} = +25.1^\circ$ ($c = 0.13$, chloroform). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662.

**20761 Taxayuntin C**

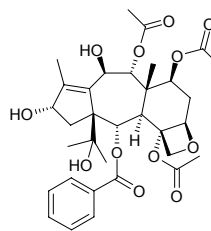
2 α -Deacetyl-2 α -benzoyl-13 α -acetyltaxayuntin $C_{42}H_{48}O_{14}$ (776.84). White granular crystals, mp 226~230°C (Abs ethanol), $[\alpha]_D^{17} = -36.2^\circ$ ($c = 0.17$, methanol). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia*, HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 383, 662, 2488.

**20762 Taxayuntin D**

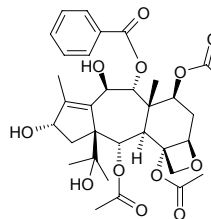
9 α -Deacetyl-9 α -debenzoyl taxayuntin; Taxchinin C [152110-14-0] $C_{47}H_{50}O_{14}$ (838.91). White granular crystals, mp 210~214°C (methanol), $[\alpha]_D^{17} = -40.4^\circ$ ($c = 0.16$, methanol); $[\alpha]_D = -45.6^\circ$ (CH₂Cl₂), mp 212~214°C. Source: ZI SHAN *Taxus cuspidata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 291, 383, 662.

**20763 Taxayuntin E**

$C_{33}H_{42}O_{12}$ (630.70). mp 185~186°C, $[\alpha]_D = +8.7^\circ$ (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**20764 Taxayuntin F**

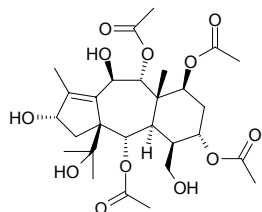
Taxchinin L $C_{33}H_{42}O_{12}$ (630.70). mp 185~186°C, $[\alpha]_D = -19.0^\circ$ (MeOH), mp 263~264°C, $[\alpha]_D = -40^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



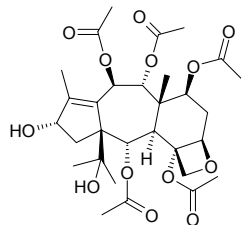
20765 Taxayuntin G

$C_{28}H_{42}O_{12}$ (570.64). mp 205–206°C, $[\alpha]_D = +56^\circ$ (MeOH). Pharm: Cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 21.2%; NCI-H226, InRt = 29.3%; A549, InRt = 0%; PC3, InRt = 1.4%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800].

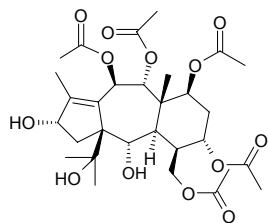
Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf)^[4800], YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 4800.

**20766 Taxayuntin H**

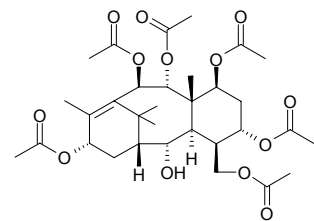
$C_{30}H_{42}O_{13}$ (610.66). mp 249–250°C, $[\alpha]_D = -66.7^\circ$ (CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**20767 Taxayuntin J**

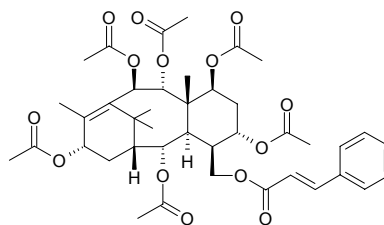
$C_{30}H_{44}O_{13}$ (612.68). mp 125–127°C, $[\alpha]_D = -54^\circ$ (MeOH). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.

**20768 Taxchin A**

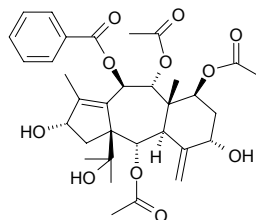
$C_{32}H_{46}O_{13}$ (638.72). mp 284–286°C. Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20769 Taxchin B**

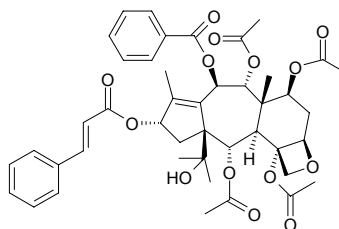
$C_{41}H_{52}O_{14}$ (768.86). mp 124–126°C, $[\alpha]_D = +39.74^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20770 Taxchinin A**

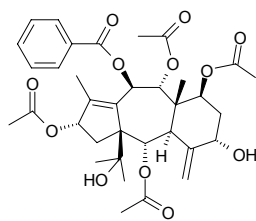
2 α -Acetoxymbrevifolol [158243-08-4] $C_{33}H_{42}O_{11}$ (614.70). mp 208–210°C, $[\alpha]_D = -34.62^\circ$ (CH₂Cl₂); mp 198°C, $[\alpha]_D = -24^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**20771 Taxchinin B**

[152110-13-9] $C_{44}H_{50}O_{14}$ (802.88). mp 176–178°C, $[\alpha]_D = +7.40^\circ$ (CH₂Cl₂). Pharm: Cytotoxic (L₁₂₁₀, IC₅₀ = 3.8 μ g/mL). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662, 1775.

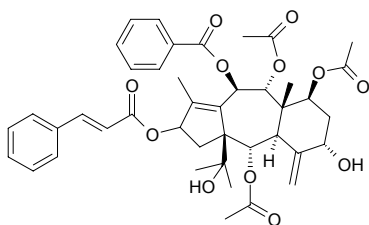
**20772 Taxchinin D**

$C_{35}H_{44}O_{12}$ (656.73). mp 138–141°C. Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

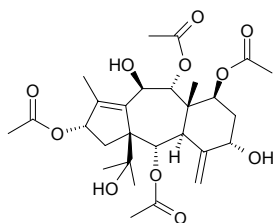


20773 Taxchinin E

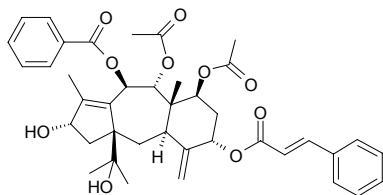
$C_{42}H_{48}O_{12}$ (744.84). mp 134~136°C, $[\alpha]_D = -17.49^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20774 Taxchinin G**

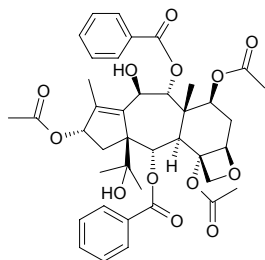
$C_{28}H_{40}O_{11}$ (552.62). mp 140~143°C. Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20775 Taxchinin H**

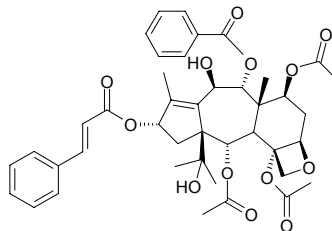
Taxawallin C $C_{40}H_{46}O_{10}$ (686.81). mp 115~118°C, $[\alpha]_D = -65.29^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20776 Taxchinin I**

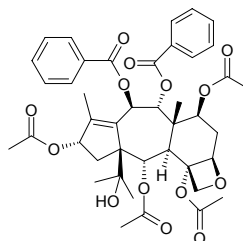
9-*O*-Benzoyl-9,10-dide-*O*-acetyl-11(15→1)-abeo-baccatin VI $C_{40}H_{46}O_{13}$ (734.80). mp 238°C, $[\alpha]_D = -30.5^\circ$ ($CHCl_3$), mp 235~237°C, $[\alpha]_D = -6.08^\circ$ ($CHCl_3$). Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20777 Taxchinin J**

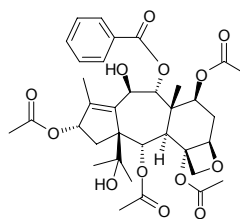
$C_{42}H_{48}O_{13}$ (760.84). mp 238~240°C, $[\alpha]_D = +23.36^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20778 Taxchinin K**

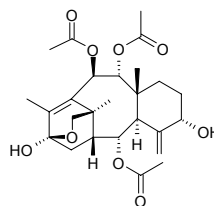
$C_{42}H_{48}O_{14}$ (776.84). mp 217~219°C, $[\alpha]_D = -30.0^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20779 Taxchinin M**

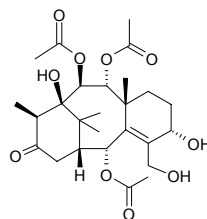
$C_{33}H_{44}O_{13}$ (672.73). mp 239~242°C, $[\alpha]_D = -19.6^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662.

**20780 Taxezopidine A**

$C_{26}H_{36}O_9$ (492.57). $[\alpha]_D = +5^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

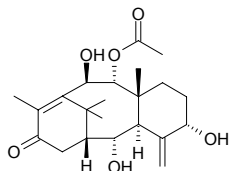
**20781 Taxezopidine B**

$C_{26}H_{38}O_{10}$ (510.59). $[\alpha]_D = +10.4^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

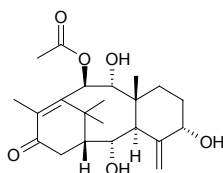


20782 Taxezopidine C

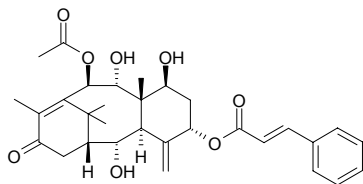
$C_{22}H_{32}O_6$ (392.50). $[\alpha]_D = +17.3^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20783 Taxezopidine D**

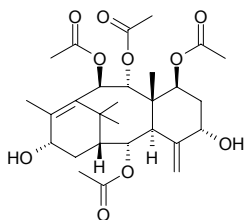
$C_{22}H_{32}O_6$ (392.50). $[\alpha]_D = +8.4^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20784 Taxezopidine E**

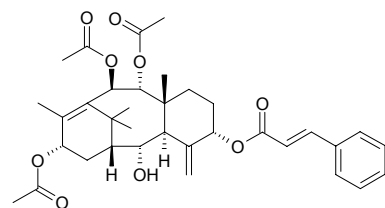
$C_{31}H_{38}O_8$ (538.64). $[\alpha]_D = +24^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20785 Taxezopidine F**

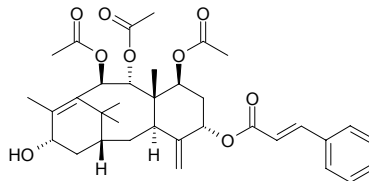
$C_{28}H_{40}O_{10}$ (536.63). $[\alpha]_D = -13.4^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20786 Taxezopidine G**

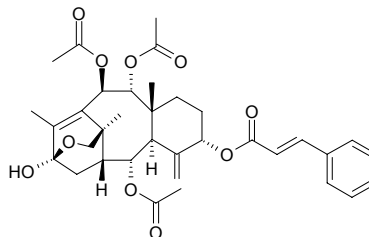
$C_{35}H_{44}O_9$ (608.74). $[\alpha]_D = +25.2^\circ$ ($CHCl_3$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts), ZI SHAN *Taxus cuspidata*. Ref: 662, 4611.

**20787 Taxezopidine H**

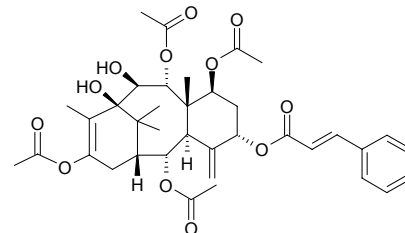
$C_{35}H_{44}O_9$ (608.74). $[\alpha]_D = +5.6^\circ$ ($CHCl_3$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts), ZI SHAN *Taxus cuspidata*. Ref: 662, 4611.

**20788 Taxezopidine J**

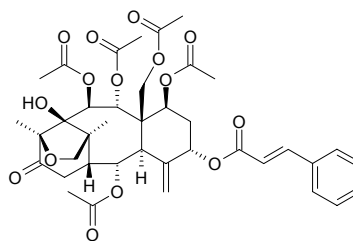
$C_{35}H_{42}O_{10}$ (622.72). $[\alpha]_D = +48^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20789 Taxezopidine K**

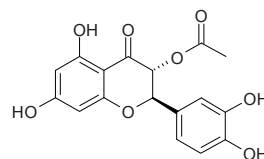
$C_{37}H_{46}O_{12}$ (682.77). $[\alpha]_D = +53^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20790 Taxezopidine L**

19-Acetoxytaxagifine $C_{39}H_{46}O_{15}$ (754.79). mp 106~108°C, $[\alpha]_D = +94^\circ$ ($CHCl_3$), $[\alpha]_D = -2.4^\circ$ (MeOH). Source: HONG DOU SHAN *Taxus chinensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

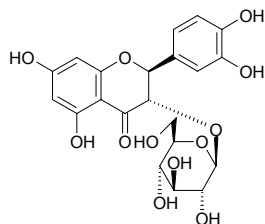
**20791 Taxifolin 3-O-acetate**

$C_{17}H_{14}O_8$ (346.30). Pharm: Sweetener. Source: NIAN XING TU MU XIANG *Inula viscosa*. Ref: 658.

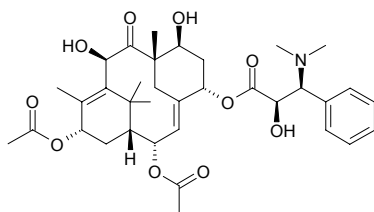


20792 (2S,3S)-(-)-Taxifolin-3-O-β-D-glucopyranoside

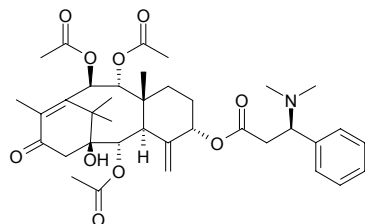
$C_{21}H_{22}O_{12}$ (466.40). White acicular crystals, mp 166~168°C, $[\alpha]_D^{14} = -119.4^\circ$ ($c = 0.5$, methanol). Source: XIAN HE CAO *Agrimonia pilosa* var. *japonica*. Ref: 152.

**20793 Taxine A**

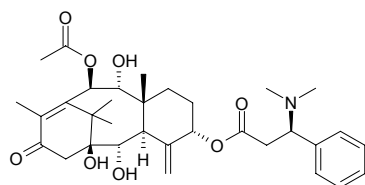
[1361-49-5] $C_{35}H_{47}NO_{10}$ (641.77). $[\alpha]_D = -140^\circ$ ($CHCl_3$), mp 204~206°C. Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**20794 Taxine A'**

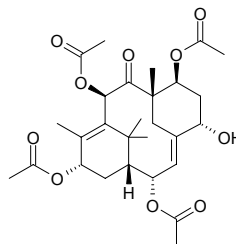
Diacetyltaxine B $C_{37}H_{49}NO_{10}$ (667.80). mp 121~124°C. Source: ZI SHAN *Taxus cuspidata*. Ref: 6.

**20795 Taxine B**

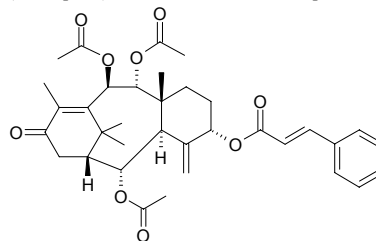
Taxine I $C_{33}H_{45}NO_8$ (583.73). mp 115°C, mp 113°C, $[\alpha]_D = +119^\circ$ ($CHCl_3$), $[\alpha]_D = +116^\circ$ (MeOH). Source: JIANG GUO ZI SHAN *Taxus baccata*, HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20796 Taxine B'**

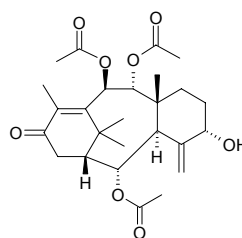
$C_{28}H_{38}O_{10}$ (534.61). mp 166~167°C, $[\alpha]_D = -239.5^\circ$ ($CHCl_3$). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig: yield = 0.00005% dw)^[4666], YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662, 4666.

**20797 Taxinine**

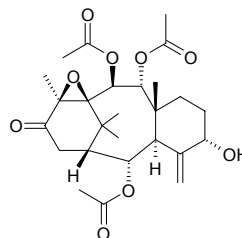
O-Cinnamoyltaxicin II triacetate [3835-52-7] $C_{35}H_{42}O_9$ (606.72). mp 265~267°C, mp 266~267°C, mp 264~265°C, mp 237~239°C, $[\alpha]_D = +137^\circ$ ($CHCl_3$), $[\alpha]_D = +128^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus, L_{1210} , 10 μg/mL InRt = 10.5%; hmn, KB, 10 μg/mL InRt = 4.8%). Source: HONG DOU SHAN *Taxus chinensis*, JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[4611], ZI SHAN *Taxus cuspidata*. Ref: 6, 291, 662, 1776, 4611.

**20798 Taxinine A**

[18530-09-1] $C_{26}H_{36}O_8$ (476.57). mp 254~255°C, $[\alpha]_D = +106^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus L_{1210} , $IC_{50} = 8.9 \mu g/mL$, hmn KB, 10 μg/mL InRt = 30.7%). Source: ZI SHAN *Taxus cuspidata*, HONG DOU SHAN *Taxus chinensis*. Ref: 6, 662, 1776.

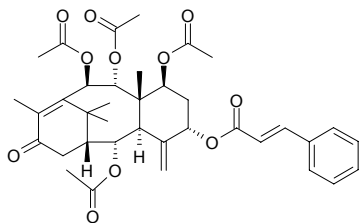
**20799 Taxinine A 11,12-epoxide**

5α-Hydroxy-2α,9α,10β-triacetoxy-11,12-epoxy-taxa-4(20)-en-13-one $C_{26}H_{36}O_9$ (492.57). White amorphous solid, mp 162~163°C, $[\alpha]_D^{17} = +7.5^\circ$ ($c = 0.06$, MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 2415.

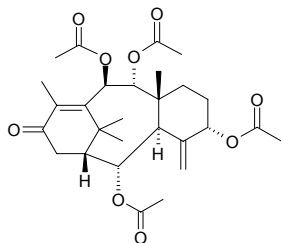


20800 Taxinine B

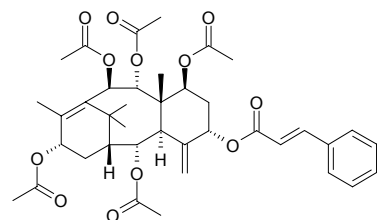
7 β -Acetate-*O*-taxinine A [18457-44-8] C₃₇H₄₄O₁₁ (664.76). mp 261~262°C, mp 265~266°C, [α]_D = +84.4° (CHCl₃), [α]_D = +93.8° (CHCl₃). **Pharm:** Cytotoxic (mus, L₁₂₁₀, 10 μ g/mL InRt = 45.9%; hmn, KB, 10 μ g/mL InRt = 28.8%; inhibits Ca²⁺-induced depolymerization of tubulin to overcome resistance of cancer cells). **Source:** MEI LI HONG DOU SHAN *Taxus mairei*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00001%dw)^[4666], YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079,4611], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1776, 3079, 4611, 4666.

**20801 Taxinine H**

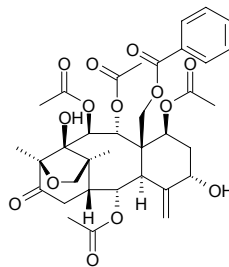
C₂₈H₃₈O₉ (518.61). mp 166~167°C, [α]_D = +96° (CHCl₃). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 6, 662.

**20802 Taxinine J**

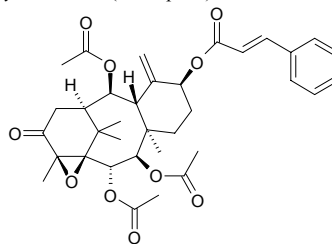
[18457-46-0] C₃₉H₄₈O₁₂ (708.81). Colorless crystals (acetone), mp 260~262°C, [α]_D¹⁴ = -37.7° (*c* = 0.09, chloroform); [α]_D²⁸ = +36.0° (*c* = 1.1, chloroform). **Pharm:** Antineoplastic (hepatocarcinoma). **Source:** HONG DOU SHAN *Taxus chinensis*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*^[4611], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 900, 4611.

**20803 Taxinine M**

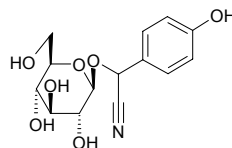
[135730-55-1] C₃₅H₄₂O₁₄ (686.72). [α]_D = -24° (MeOH). **Pharm:** Cytotoxic (BST, LC₅₀ = 620 μ g/mL; KB, IC₅₀ = 9.4 μ g/mL); cytotoxic (*in vitro*, 30 μ g/mL: A498, InRt = 24.3%; NCI-H226, InRt = 11.1%; A549, InRt = 14.6%; PC3, InRt = 0%; control Taxol, 30 μ g/mL: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]. **Source:** DUAN YE HONG DOU SHAN *Taxus brevifolia*, SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf^[4800]: yield = 0.0021%dw^[4666]). **Ref:** 662, 1775, 4666, 4800.

**20804 Taxinine N,N-4**

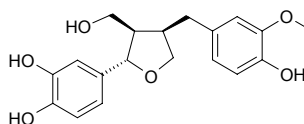
C₃₅H₄₂O₁₀ (622.72). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts). **Ref:** 3079.

**20805 Taxiphyllin**

Phyllanthin; Phyllanthoside C₁₄H₁₇NO₇ (311.29). **Source:** HAI JIU CAI *Triglochin maritimum*, LA MEI HUA *Chimonanthus fragrans* [Syn. *Chimonanthus praecox*], *Taxus* spp. **Ref:** 660.

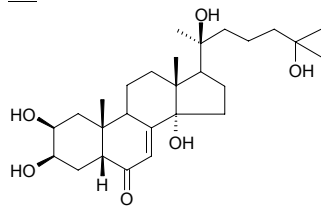
**20806 Taxiresinol**

[40951-69-7] C₁₉H₂₂O₆ (346.38). **Pharm:** Hepatoprotective (mouse, 50mg/kg, TNF- α level = (264.1 \pm 103.4)pg/mL, 10mg/kg, TNF- α level = (350.0 \pm 194.2)pg/mL)^[4917]; antioxidant (DPPH free radical scavenger, IC₅₀ = 18.4 μ mol/L, control Caffeic acid, IC₅₀ = 25.5 μ mol/L)^[5407]; NO production inhibitor (IC₅₀ = 163 μ mol/L, control *L*-NMMA, IC₅₀ = 28.5 μ mol/L)^[5407]. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.10%dw). **Ref:** 1521, 4661, 4917, 5407.

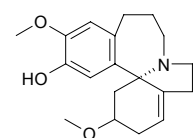


20807 Taxisterone

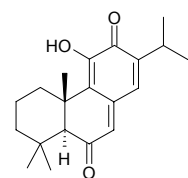
22-Deoxyecdysterone $C_{27}H_{44}O_6$ (464.65). Source: ZI SHAN *Taxus cuspidata*. Ref: 660.

**20808 Taxodine**

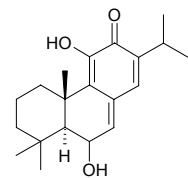
$C_{19}H_{25}NO_3$ (315.42). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

**20809 Taxodione**

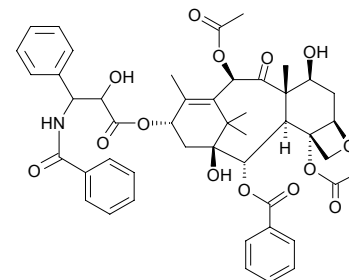
[19026-31-4] $C_{20}H_{26}O_3$ (314.43). mp 115~116°C, $[\alpha]_D^{25} = +525^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Antineoplastic (rat W_{256} , 50mg/kg, InRt = 93%); cytotoxic (KB, $ED_{50} = 3\mu g/mL$); cytotoxic (Col2, $IC_{50} = 0.7\mu g/mL$, control Ellipticine, $IC_{50} = 0.3\mu g/mL$; LNCaP, $IC_{50} = 0.7\mu g/mL$, Ellipticine, $IC_{50} = 0.8\mu g/mL$; P388, $IC_{50} = 0.3\mu g/mL$, Ellipticine, $IC_{50} = 0.1\mu g/mL$; A2780, $IC_{50} = 9.0\mu g/mL$, control Actinomycin D, $IC_{50} = 0.001\mu g/mL$; KB-VI, $IC_{50} = 4.1\mu g/mL$, Ellipticine, $IC_{50} = 0.3\mu g/mL$; KB, $IC_{50} = 3.4\mu g/mL$, Ellipticine, $IC_{50} = 0.04\mu g/mL$; Lu1, $IC_{50} = 5.1\mu g/mL$, Ellipticine, $IC_{50} = 0.02\mu g/mL$; BC1, $IC_{50} = 1.2\mu g/mL$, Ellipticine, $IC_{50} = 0.2\mu g/mL$)^[5400]. Source: LUO YU SHAN *Taxodium distichum*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*. Ref: 5, 658, 5400.

**20810 Taxodone**

[19039-02-2] $C_{20}H_{28}O_3$ (316.44). mp 164~166°C. Pharm: Antineoplastic (rat W_{256} , 25mg/kg, InRt = 91%); cytotoxic (KB, $ED_{50} = 1.8\mu g/mL$ or $0.6\mu g/mL$). Source: LUO YU SHAN *Taxodium distichum*. Ref: 5, 658.

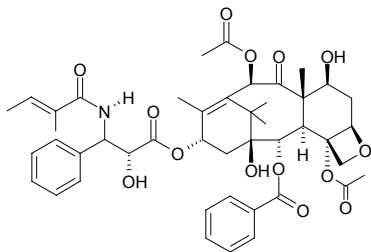
**20811 Taxol**

Paclitaxel [33069-62-4] $C_{47}H_{51}NO_{14}$ (853.93). $[\alpha]_D = -49^\circ$ (MeOH), mp 213~216°C, $[\alpha]_D = -54^\circ$ (MeOH), mp 194~197°C, $[\alpha]_D = -42^\circ$ (MeOH), mp 198~203°C, $[\alpha]_D = -54^\circ$ (MeOH), mp 205~208°C, $[\alpha]_D = -21^\circ$ (pyridine). Pharm: Cytotoxic (MCF7, $GI_{50} = (0.102 \pm 0.009)\mu g/mL$; MDA-MB-231, $GI_{50} = (0.099 \pm 0.001)\mu g/mL$; OVCAR-3, $GI_{50} = (0.028 \pm 0.006)\mu g/mL$; A549, $GI_{50} = (0.030 \pm 0.001)\mu g/mL$; HT29, $GI_{50} = (0.032 \pm 0.003)\mu g/mL$; ACHN, $GI_{50} = (0.088 \pm 0.004)\mu g/mL$); cytotoxic (*in vitro*, PC3, $IC_{50} = 0.016\mu mol/L$; Hep3B, $IC_{50} = 0.031\mu mol/L$)^[3010]; cytotoxic (hmn PC3 tumor cells, $IC_{50} = 0.16\mu mol/L$)^[4258]; cytotoxic (*in vitro*, KB, $IC_{50} = 0.001\mu g/mL$; Hepa59T/VGH, $IC_{50} = 0.001\mu g/mL$)^[4666]; antiproliferative and cytotoxic (*in vitro*, L-929, $GI_{50} = 0.1\mu g/mL$; K562, $GI_{50} = 0.01\mu g/mL$; HeLa, $CC_{50} = 0.01\mu g/mL$)^[4770]; cytotoxic (*in vitro*, 30 $\mu g/mL$: A498, InRt = 98.2%; NCI-H226, InRt = 71.2%; A549, InRt = 79.7%; PC3, InRt = 91.7%)^[4800]; cytotoxic (Lu1, $ED_{50} = 0.002\mu g/mL$, Col2, $ED_{50} = 0.003\mu g/mL$, KB, $ED_{50} = 0.0005\mu g/mL$, LNCaP, $ED_{50} = 0.001\mu g/mL$, hTERT-RPE1, $ED_{50} = 0.004\mu g/mL$, HUVEC, $ED_{50} = 0.008\mu g/mL$)^[4991]; cytotoxic (HL-60, $IC_{50} = (4.1 \pm 1.1) \times 10^{-4}\mu mol/L$; MCF7, $IC_{50} = (15.3 \pm 2.6)\mu mol/L$; Bel7402, $IC_{50} = (0.3 \pm 0.1)\mu mol/L$; HeLa, $IC_{50} = (33.0 \pm 6.1)\mu mol/L$; KB, $IC_{50} > 100\mu mol/L$)^[5015]; apoptosis inducer (HL-60 cells, $15\mu mol/L$, control sub-G1 population = $(5.4 \pm 3.2)\%$, sub-G1 population = $(40.5 \pm 0.2)\%$)^[5015]; cytotoxic (Bel7402 cancer cell, $IC_{50} = (0.3 \pm 0.1)\mu mol/L$; HeLa, $IC_{50} = (33.0 \pm 6.1)\mu mol/L$; HL-60, $IC_{50} = (4.1 \pm 1.1) \times 10^{-4}\mu mol/L$; MCF7, $IC_{50} = (15.3 \pm 2.6)\mu mol/L$)^[5410]; cytotoxic (K562, $GI_{50} > 100ng/mL$; HL-60, $GI_{50} = 77ng/mL$; DU145, $GI_{50} = 40ng/mL$; PC3, $GI_{50} = 44ng/mL$; A549, $GI_{50} = 30ng/mL$; NCI-H460, $GI_{50} = 20ng/mL$; MCF7, $GI_{50} = 80ng/mL$; MDA-MB-231, $GI_{50} = 40ng/mL$; ACHN, $GI_{50} > 100ng/mL$; UO-31, $GI_{50} > 100ng/mL$; HT29, $GI_{50} = 40ng/mL$; Colon205, $GI_{50} = 40ng/mL$)^[5450]; cytotoxic (Bel7402 cell lines, $IC_{50} = 0.52\mu mol/L$; BGC823, $IC_{50} > 500\mu mol/L$; HeLa, $IC_{50} = 34.25\mu mol/L$; HL-60, $IC_{50} = 3.5 \times 10^{-4}\mu mol/L$; MCF7, $IC_{50} = 12.64\mu mol/L$)^[5454]; antineoplastic (used in treatment of ovarian cancer, breast cancer, lung cancer, and nasopharyngeal carcinoma). Source: DUAN YE HONG DOU SHAN *Taxus brevifolia* (bark: content = 0.0630%, needle leaf: content = 0.0110%)^[5508], HAI NAN CU FEI *Cephalotaxus hainanensis* [Syn. *Cephalotaxus mannii*], HONG DOU SHAN *Taxus chinensis* (branch-leaf: content = 0.0025%)^[5508], JIANG GUO ZI SHAN *Taxus baccata* (branch-leaf: content = 0.0043%)^[5508], JIE ZHI HONG DOU SHAN *Taxus media* (bark: content = 0.0350%, needle leaf: content = 0.0130%)^[5508], MEI LI HONG DOU SHAN *Taxus mairei* (branch-leaf: content = 0.0030%)^[5508], SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00009%dw)^[4666], XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (branch-leaf: content = 0.0100%)^[5508], ZI SHAN *Taxus cuspidata* (branch-leaf: content = 0.0038%)^[5508]. Ref: 5, 6, 202, 662, 3010, 4258, 4666, 4770, 4800, 4991, 4992, 5015, 5410, 5450, 5454, 5508.

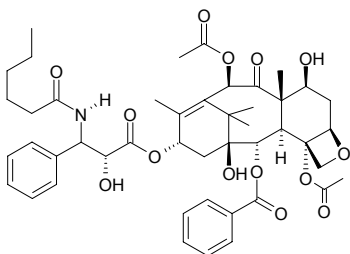


20812 Taxol B

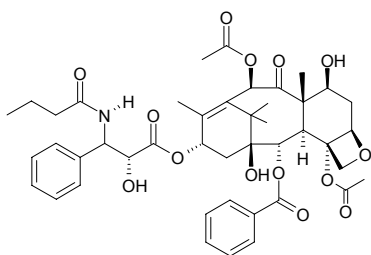
Cephalomannine [71610-00-9] $C_{45}H_{53}NO_{14}$ (831.92). $[\alpha]_D = -41^\circ$ (MeOH), mp 181~184°C, $[\alpha]_D = -41^\circ$ (MeOH), mp 184~186°C, mp 180~183°C. Source: JIANG GUO ZI SHAN *Taxus baccata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana*, YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 563, 662.

**20813 Taxol C**

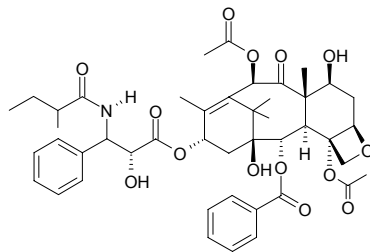
Taxuyunnanine A; *N*-Debenzoyl-*N*-hexanoyltaxol [153415-45-3] $C_{46}H_{57}NO_{14}$ (847.97). Yellow amorphous solid, mp 150°C (methanol), $[\alpha]_D^{14} = -107^\circ$ ($c = 0.054$, methanol), mp 204~205°C, $[\alpha]_D^{20} = -64.7^\circ$ ($c = 1.2$, $CHCl_3$). Pharm: Cytotoxic (in NCI hmn clonal selection, showing strongly selective cytotoxic, especially against parvicellular and non-parvicellular lung cancer; L_{1210} , $IC_{50} = 0.21 \mu g/mL$; KB, $IC_{50} = 0.0066 \mu g/mL$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, ZI SHAN *Taxus cuspidata*. Ref: 662, 900.

**20814 Taxol D**

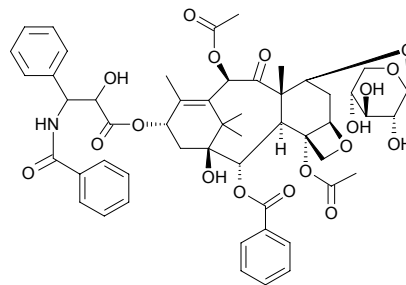
Taxcultine; *N*-Debenzoyl-*N*-butanoyltaxol [153415-46-4] $C_{44}H_{53}NO_{14}$ (819.91). $[\alpha]_D = -7.54^\circ$ (MeOH), mp 155°C, $[\alpha]_D = -16^\circ$ ($CHCl_3$), mp 206~208°C. Pharm: Cytotoxic (L_{1210} , $IC_{50} = 0.21 \mu g/mL$; KB, $IC_{50} = 0.0016 \mu g/mL$); antineoplastic (ox brain, tubulin assay, $ED_{50} = 2.35 \mu g/mL$). Source: JIANG GUO ZI SHAN *Taxus baccata*, ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*. Ref: 662, 1649, 1775.

**20815 Taxoline**

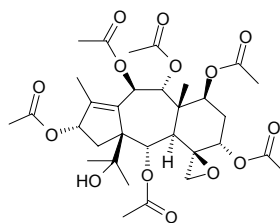
[213539-42-5] $C_{45}H_{55}NO_{14}$ (833.94). White powdery crystals, mp 184~186°C. Pharm: Antineoplastic (P_{388} , inhibits DNA synthesis, $ID_{50} = 1.12 \mu g/mL$). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 813.

**20816 Taxol C-7-xylose**

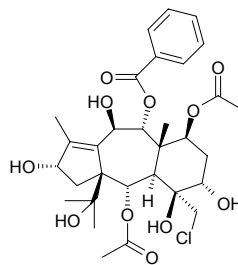
$C_{52}H_{59}NO_{18}$ (986.05). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 563.

**20817 Taxuchin A**

$C_{32}H_{44}O_{14}$ (652.70). mp 248~250°C, $[\alpha]_D = -64.8^\circ$ ($CHCl_3$). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20818 Taxuchin B**

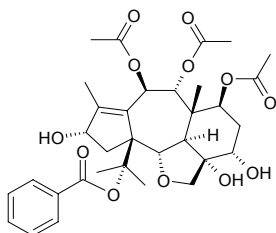
$C_{31}H_{41}ClO_{11}$ (625.12). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.



20828 Taxumairol H

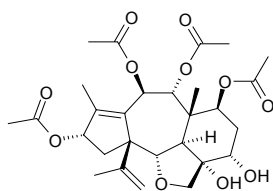
$C_{33}H_{42}O_{12}$ (630.70). Amorphous solid, $[\alpha]_D^{25} = +2.6^\circ$ ($c = 0.2$, CH_2Cl_2).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

**20829 Taxumairol I**

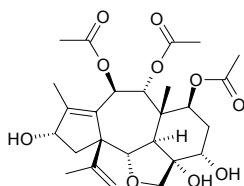
$C_{28}H_{38}O_{11}$ (550.61). Amorphous solid, $[\alpha]_D^{25} = +73.5^\circ$ ($c = 0.2$, CH_2Cl_2).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

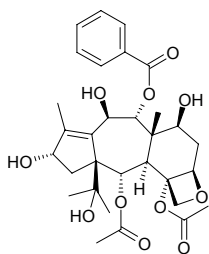
**20830 Taxumairol J**

$C_{26}H_{36}O_{10}$ (508.57). Amorphous solid, $[\alpha]_D^{25} = +9.8^\circ$ ($c = 0.2$, CH_2Cl_2).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

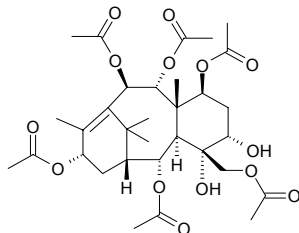
**20831 Taxumairol K**

9 α -(Benzoyloxy)-2 α ,4 α -diacetoxy-5 β ,20-epoxy-1 β ,7 β ,10 β ,13 α -tetrahydroxy-11(15 \rightarrow 1)-abeo-taxene $C_{31}H_{40}O_{11}$ (588.66). $[\alpha]_D = -8.5^\circ$ (MeOH). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

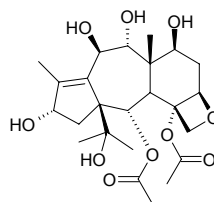
**20832 Taxumairol L**

$C_{32}H_{46}O_{14}$ (654.72). Amorphous solid, $[\alpha]_D^{25} = +12.8^\circ$ ($c = 0.2$, MeOH).

Source: MEI LI HONG DOU SHAN *Taxus mairei* (root). Ref: 4199.

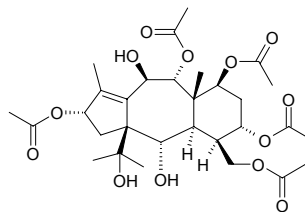
**20833 Taxumairol Q**

$C_{24}H_{36}O_{10}$ (484.55). White amorphous solid. Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 16.25\mu g/mL$; Hepa59T/VGH, $IC_{50} = 14.52\mu g/mL$; control Paclitaxel, KB, $IC_{50} = 0.001\mu g/mL$; Hepa59T/VGH, $IC_{50} = 0.001\mu g/mL$). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (leaf and twig: yield = 0.000076%dw). Ref: 4666.

**20834 Taxumairol U**

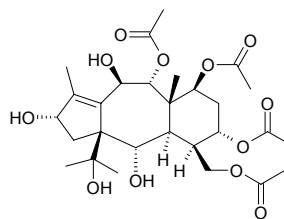
5 α ,7 β ,9 α ,13 α ,20-Pentaacetoxy-2 α ,10 β ,15-trihydroxy-11(15 \rightarrow 1)-abeo-taxene $C_{30}H_{44}O_{13}$ (612.68). Amorphous solid, $[\alpha]_D^{25} = -18^\circ$ ($c = 0.05$, CH_2Cl_2).

Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 10.3\mu g/mL$; Hepa, $IC_{50} = 0.3\mu g/mL$)^[3070]. Source: MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00022%dw)^[4666]. Ref: 3070, 4666.

**20835 Taxumairol V**

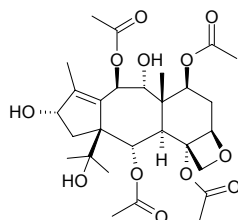
5 α ,7 β ,9 α ,20-Tetraacetoxy-2 α ,10 β ,13 α ,15-tetrahydroxy-11-(15 \rightarrow 1)-abeo-taxene $C_{28}H_{42}O_{12}$ (570.64). Amorphous powder, $[\alpha]_D^{25} = -13^\circ$ ($c = 0.05$, CH_2Cl_2).

Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 3.9\mu g/mL$; Hepa, $IC_{50} = 1.6\mu g/mL$)^[3070]. Source: MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00006%dw)^[4666]. Ref: 3070, 4666.

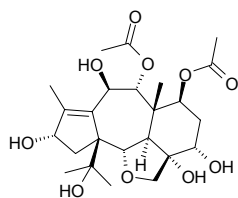


20836 Taxumairol W

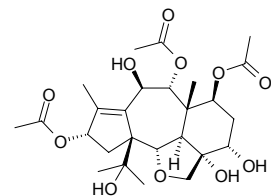
2 α ,4 α ,7 β ,10 β -Tetraacetoxy-5 β ,20-epoxy-9 α ,13 α ,15-trihydroxy-11(15 \rightarrow 1)-abeo-taxene C₂₈H₄₀O₁₂ (568.62). Amorphous solid, $[\alpha]_D^{25} = -54^\circ$ ($c = 0.05$, CH₂Cl₂). **Pharm:** Cytotoxic (*in vitro*, KB, IC₅₀ > 20 μ g/mL; Hepa, IC₅₀ = 7 μ g/mL)^[3070]. **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (stem cortex), SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00004%dw)^[4666]. **Ref:** 3070, 4359, 4666.

**20837 Taxumairol X**

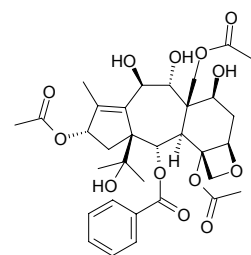
C₂₄H₃₆O₁₀ (484.55). Amorphous powder, $[\alpha]_D^{25} = +14.6^\circ$ ($c = 0.2$, CH₂Cl₂). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20838 Taxumairol Y**

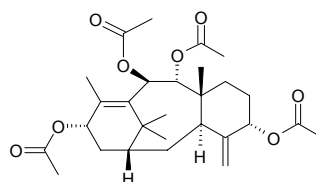
C₂₆H₃₈O₁₁ (526.59). Amorphous powder, $[\alpha]_D^{25} = +72.6^\circ$ ($c = 0.2$, CH₂Cl₂). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20839 Taxumairol Z**

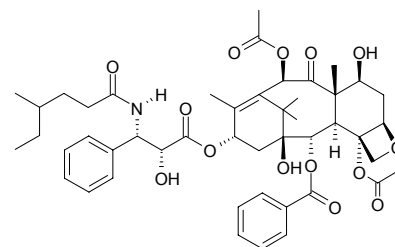
C₃₃H₄₂O₁₃ (646.69). Amorphous powder, $[\alpha]_D^{25} = -25^\circ$ ($c = 0.2$, CH₂Cl₂). **Source:** MEI LI HONG DOU SHAN *Taxus mairei* (root). **Ref:** 4250.

**20840 Taxusin**

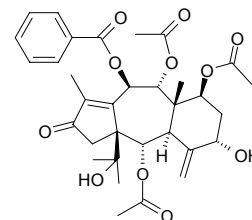
5 α ,9 α ,10 β ,13 α -Tetraacetoxytaxa-4(20),11-diene C₂₈H₄₀O₈ (504.63). mp 126°C, mp 129~131°C, mp 124~126°C, mp 124~126°C, mp 131~132°C, $[\alpha]_D = +110^\circ$, $[\alpha]_D = +120^\circ$ (CHCl₃), $[\alpha]_D = +95^\circ$ (MeOH), $[\alpha]_D = +168^\circ$ (CHCl₃). **Pharm:** Cytotoxic (*in vitro*, Colon26-L5, EC₅₀ = 61.4 μ g/mL; HT1080, EC₅₀ = 51.7 μ g/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μ g/mL; HT1080, EC₅₀ = 0.07 μ g/mL)^[4661]; antioxidant (DPPH scavenger, IC₅₀ > 200 μ mol/L, control Caffeic acid, IC₅₀ = 25.5 μ mol/L); NO production inhibitor (IC₅₀ = 22.1 μ mol/L, control L-NMMA, IC₅₀ = 28.5 μ mol/L)^[5407]. **Source:** JIANG GUO ZI SHAN *Taxus baccata*, MEI LI HONG DOU SHAN *Taxus mairei*, YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.011%dw)^[4661], ZI SHAN *Taxus cuspidata*. **Ref:** 6, 563, 662, 4661, 5407.

**20841 Taxuspinanane A**

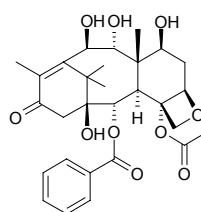
C₄₇H₅₉NO₁₄ (861.99). $[\alpha]_D = -40.2^\circ$ (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

**20842 Taxuspinanane B**

C₃₃H₄₀O₁₁ (612.68). $[\alpha]_D = +26.6^\circ$ (MeOH). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662.

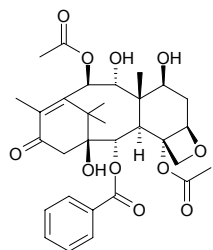
**20843 Taxuspinanane C**

[198207-98-6] C₂₉H₃₆O₁₀ (544.60). mp 152~154°C, $[\alpha]_D = +60^\circ$ (MeOH). **Pharm:** Cytotoxic (P₃₈₈, IC₅₀ = 10 μ g/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 1790.

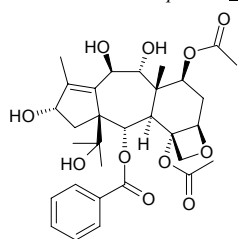


20844 Taxuspinanane D

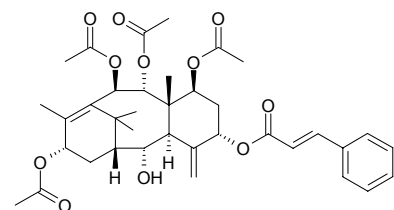
13-Oxo-7,9-bis-deacetylbaccatin VI $C_{31}H_{38}O_{11}$ (586.64). $[\alpha]_D = -40.2^\circ$ (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20845 Taxuspinanane F**

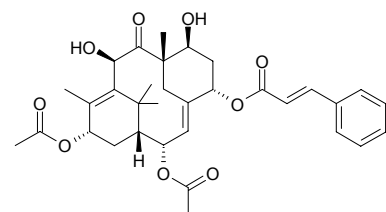
9-Deacetylaxayuntin E $C_{31}H_{40}O_{11}$ (588.66). $[\alpha]_D = -23.2^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20846 Taxuspinanane G**

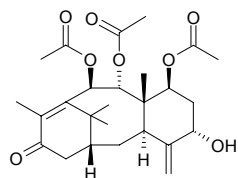
2 α -Deacetylaxininine J $C_{37}H_{46}O_{11}$ (666.77). $[\alpha]_D = -54.9^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20847 Taxuspinanane H**

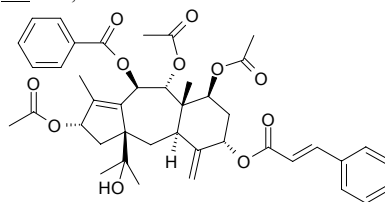
Deaminoacylcinnamoyltaxine A $C_{33}H_{40}O_9$ (580.68). $[\alpha]_D = -42^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20848 Taxuspinanane K**

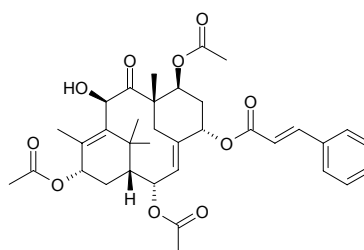
$C_{26}H_{36}O_8$ (476.57). $[\alpha]_D = +95.2^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20849 Taxuspine A**

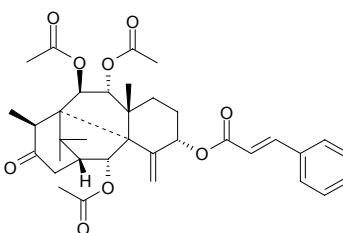
[157374-28-2] $C_{42}H_{48}O_{11}$ (728.84). $[\alpha]_D = -3.4^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus, L_{1210} , $IC_{50} = 5.8\mu g/mL$; hmn, KB, $10\mu g/mL$ InRt = 8.9%). Source: ZI SHAN *Taxus cuspidata*, DUAN YE HONG DOU SHAN *Taxus brevifolia*. Ref: 662, 1776.

**20850 Taxuspine B**

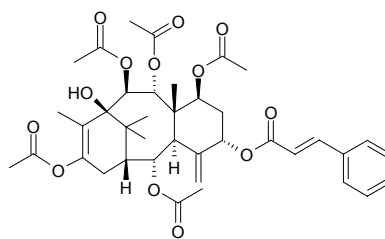
[157414-05-6] $C_{35}H_{42}O_{10}$ (622.72). $[\alpha]_D = -40.6^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus, L_{1210} , $IC_{50} = 18\mu g/mL$; hmn, KB, $10\mu g/mL$ InRt = 11.8%; inhibits Ca^{2+} -induced depolymerization of tubulin to overcome resistance of cancer cells). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079], *Taxus* sp. Ref: 662, 1776, 3079.

**20851 Taxuspine C**

[146278-50-4] $C_{35}H_{42}O_9$ (606.72). $[\alpha]_D = +7.4^\circ$ ($CHCl_3$). Pharm: Cytotoxic (mus, L_{1210} , $IC_{50} = 5.8\mu g/mL$; hmn, KB, $10\mu g/mL$ InRt = 8.9%). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[3079], ZI SHAN *Taxus cuspidata*. Ref: 662, 1776, 3079.

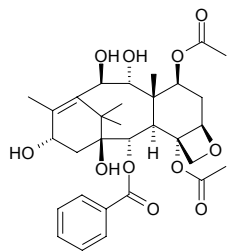
**20852 Taxuspine D**

[166990-12-1] $C_{39}H_{48}O_{13}$ (724.81). $[\alpha]_D = -32.2^\circ$ (MeOH). Pharm: Cytotoxic (*in vitro*, L_{1210} , $IC_{50} = 3.0\mu g/mL$; KB, $IC_{50} = 1.8\mu g/mL$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662, 1777.

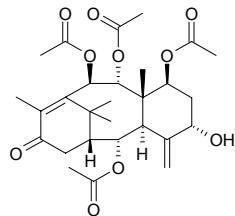


20853 Taxuspine E

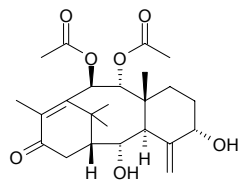
[165074-73-7] $C_{31}H_{40}O_{11}$ (588.66). $[\alpha]_D = -17^\circ$ ($CHCl_3$). Pharm: Cytotoxic (L_{1210} , $IC_{50} = 0.27 \mu g/mL$; KB, $IC_{50} = 0.08 \mu g/mL$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662, 1775.

**20854 Taxuspine F**

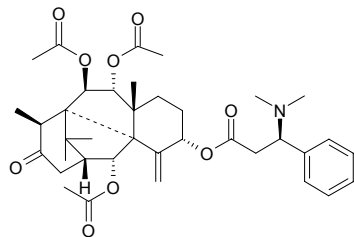
$C_{28}H_{38}O_{10}$ (534.61). $[\alpha]_D = +50^\circ$ ($CHCl_3$). Source: SU MEN DA LA HONG DOU SHAN *Taxus sumatrana* (twig and leaf: yield = 0.00023%dw)^[4666], ZI SHAN *Taxus cuspidata*. Ref: 662, 4666.

**20855 Taxuspine G**

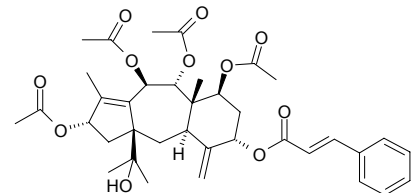
2-Deacetyltaxinine A $C_{24}H_{34}O_7$ (434.53). mp 295~298°C, $[\alpha]_D = +97^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20856 Taxuspine H**

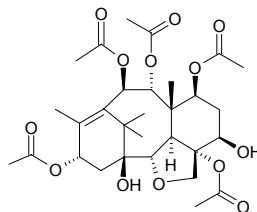
[164991-81-5] $C_{37}H_{49}NO_9$ (651.80). $[\alpha]_D = +6.8^\circ$ ($CHCl_3$). Pharm: Cytotoxic (KB, $IC_{50} = 1.6 \mu g/mL$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662, 1775.

**20857 Taxuspine J**

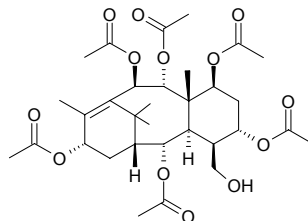
$C_{37}H_{46}O_{11}$ (666.77). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20858 Taxuspine K**

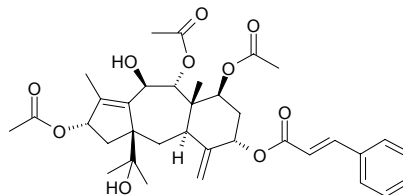
$C_{30}H_{42}O_{13}$ (610.66). $[\alpha]_D = +14^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20859 Taxuspine L**

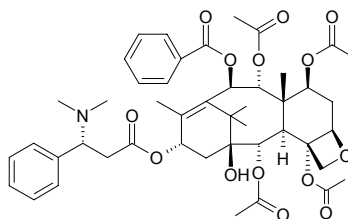
$C_{32}H_{46}O_{13}$ (638.72). $[\alpha]_D = +108^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20860 Taxuspine M**

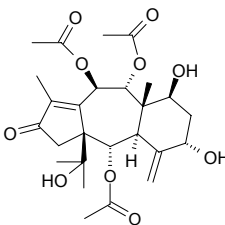
$C_{33}H_{44}O_{10}$ (624.73). $[\alpha]_D = +35^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20861 Taxuspine N**

$C_{46}H_{57}NO_{14}$ (847.97). $[\alpha]_D = -6.0^\circ$ ($CHCl_3$). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

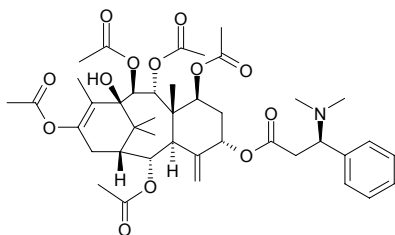
**20862 Taxuspine O**

$C_{26}H_{36}O_{10}$ (508.57). $[\alpha]_D = +79.7^\circ$ (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

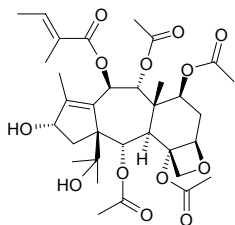


20863 Taxuspine P

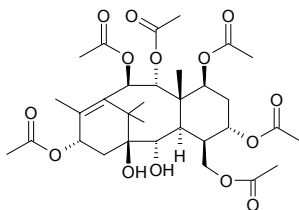
2 α ,7 β ,9 α ,10 β ,13-Pentaacetoxy-11 β -hydroxy-5 α -(3'-N,N-dimethylamino-3'-phenyl)-propionyloxytaxa-4(20),12-diene C₄₁H₅₅NO₁₃ (769.89). Amorphous solid, $[\alpha]_D^{22} = +39^\circ$ ($c = 0.2$, CHCl₃), $[\alpha]_D = +32.7^\circ$ (MeOH). Source: JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf), ZI SHAN *Taxus cuspidata*. Ref: 662, 3886.

**20864 Taxuspine Q**

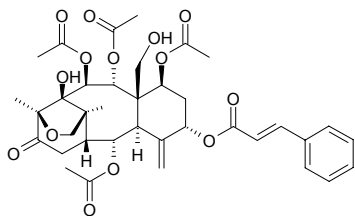
C₃₃H₄₆O₁₃ (650.73). $[\alpha]_D = -8.2^\circ$ (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20865 Taxuspine R**

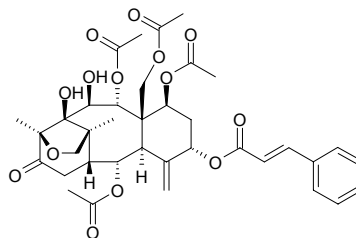
C₃₂H₄₆O₁₄ (654.72). $[\alpha]_D = +68^\circ$ (CHCl₃). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20866 Taxuspine S**

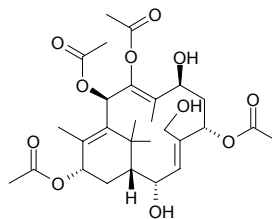
C₃₇H₄₄O₁₄ (712.75). $[\alpha]_D = -4.4^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20867 Taxuspine T**

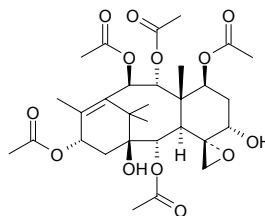
C₃₇H₄₄O₁₄ (712.75). $[\alpha]_D = -13.4^\circ$ (CHCl₃). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**20868 Taxuspine U**

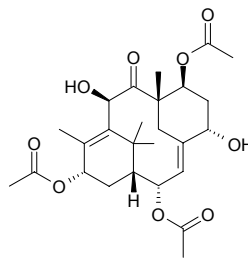
C₂₈H₄₀O₁₁ (552.62). $[\alpha]_D = +18^\circ$ (MeOH). Source: ZI SHAN *Taxus cuspidata*. Ref: 662.

**20869 Taxuspine V**

1 β -Hydroxy-5 α -deacetylbaccatin I C₃₀H₄₂O₁₃ (610.66). mp 230~232°C, $[\alpha]_D = +56^\circ$ (CHCl₃), mp 273~275°C, $[\alpha]_D = +138.7^\circ$ (CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*, ZI SHAN *Taxus cuspidata*. Ref: 662.

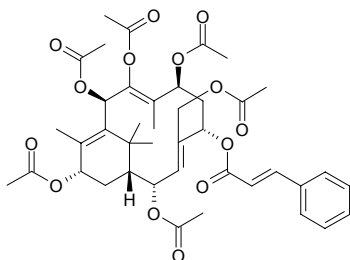
**20870 Taxuspine W**

2 α ,7 β ,13 α -Triacetoxy-5 α ,10 β -dihydroxy-9-keto-2(3 \rightarrow 20)-abeo-taxane C₂₆H₃₆O₉ (492.57). mp 172~174°C, $[\alpha]_D = -94.7^\circ$ (MeOH), $[\alpha]_D = -147^\circ$. Source: ZA JIAO JIE ZHI HONG DOU SHAN *Taxus x media*, ZI SHAN *Taxus cuspidata*. Ref: 662.

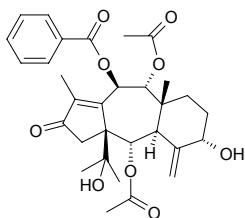


20871 Taxuspine X

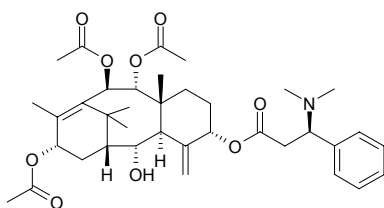
[194782-02-0] C₄₁H₅₀O₁₄ (766.85). Colorless amorphous solid, $[\alpha]_D^{22} = +31.7^\circ$ ($c = 0.13$, chloroform). **Pharm:** Cytotoxic (mus, L₁₂₁₀, *in vitro*, IC₅₀ = 4.2 μg/mL). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (aerial parts)^[4611], ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963, 4611.

**20872 Taxuspine Y**

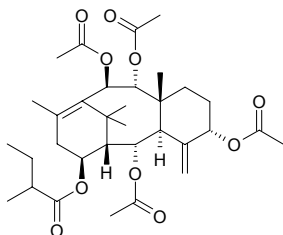
[194782-03-1] C₃₁H₃₈O₉ (554.64). Colorless amorphous solid, $[\alpha]_D^{31} = -25.4^\circ$ ($c = 0.17$, chloroform). **Pharm:** Cytotoxic (mus, L₁₂₁₀, *in vitro*, IC₅₀ = 5.4 μg/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963.

**20873 Taxuspine Z**

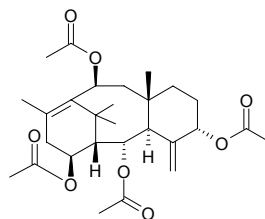
[194782-04-2] C₃₇H₅₁NO₉ (653.82). Colorless amorphous solid, $[\alpha]_D^{28} = +31.2^\circ$ ($c = 0.08$, chloroform). **Pharm:** Cytotoxic (KB, *in vitro*, IC₅₀ = 6.2 μg/mL). **Source:** ZI SHAN *Taxus cuspidata*. **Ref:** 662, 963.

**20874 Taxuyunnanine B**

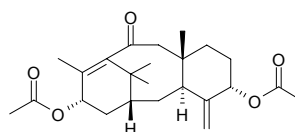
C₃₃H₄₈O₁₀ (604.74). $[\alpha]_D = +58.2^\circ$ ($c = 1.2$, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20875 Taxuyunnanine C**

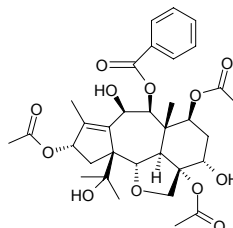
2 α ,5 α ,10 β ,14 β -Tetraacetoxytaxa-4(20),11-diene C₂₈H₄₀O₈ (504.63). $[\alpha]_D = +41.1^\circ$ ($c = 1.2$, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*^[3079], HONG DOU SHAN *Taxus chinensis*. **Ref:** 662, 3079.

**20876 Taxuyunnanine D**

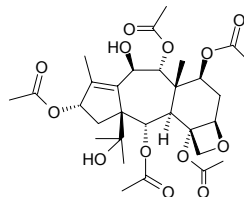
C₂₄H₃₄O₅ (402.54). $[\alpha]_D = -61.0^\circ$ (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

**20877 Taxuyunnanine E**

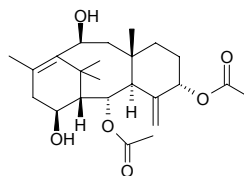
[167425-73-2] C₃₃H₄₂O₁₂ (630.70). $[\alpha]_D = +3.3^\circ$ (CHCl₃). **Pharm:** Cytotoxic (*in vitro*, Colon26-L5, EC₅₀ > 100 μg/mL; HT1080, EC₅₀ > 100 μg/mL; control 5-Fluorouracil, Colon26-L5, EC₅₀ = 0.29 μg/mL; HT1080, EC₅₀ = 0.07 μg/mL)^[4661]; NO production inhibitor (IC₅₀ = 54.8 μmol/L, control L-NMMA, IC₅₀ = 28.5 μmol/L)^[5407]. **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood: yield = 0.0022%dw)^[4661]. **Ref:** 662, 4661, 5407.

**20878 Taxuyunnanine F**

C₃₀H₄₂O₁₃ (610.66). $[\alpha]_D = -22.6^\circ$ (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

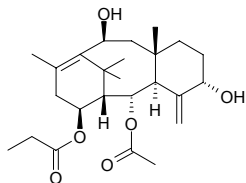
**20879 Taxuyunnanine G**

C₂₄H₃₆O₆ (420.55). $[\alpha]_D = +40.6^\circ$ (CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis*. **Ref:** 662.

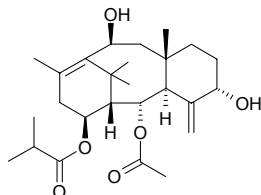


20880 Taxuyunnanin H

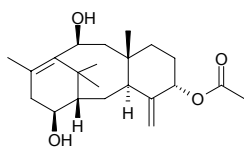
$C_{25}H_{38}O_6$ (434.58). $[\alpha]_D^{25} = +101.8^\circ$ ($CHCl_3$). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20881 Taxuyunnanin I**

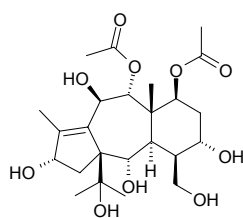
$C_{26}H_{40}O_6$ (448.61). $[\alpha]_D^{25} = +27.1^\circ$ ($CHCl_3$). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20882 Taxuyunnanin J**

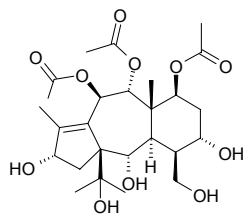
$C_{22}H_{34}O_4$ (362.51). $[\alpha]_D^{25} = +71.3^\circ$ ($CHCl_3$). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis*. [Ref](#): 662.

**20883 Taxuyunnanin P**

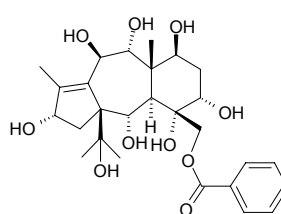
$C_{24}H_{38}O_{10}$ (486.56). White powder, $[\alpha]_D^{28} = -12.7^\circ$ ($c = 0.65$, MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20884 Taxuyunnanin Q**

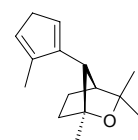
$C_{26}H_{40}O_{11}$ (528.60). White powder, $[\alpha]_D^{28} = -44.0^\circ$ ($c = 0.25$, MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20885 Taxuyunnanin R**

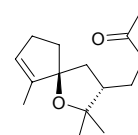
$C_{27}H_{38}O_{10}$ (522.60). White powder, $[\alpha]_D^{28} = -5.0^\circ$ ($c = 0.10$, MeOH). [Source](#): YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). [Ref](#): 5188.

**20886 (–)-(6S,7S,10R)-Taylocyclane**

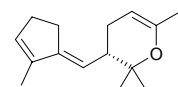
1,3,3-Trimethyl-7-(5-methylcyclopenta-1,4-dien-1-yl)-2-oxabicyclo[2,2,1]heptane $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20887 (5S*,7S*)-Taylofuran**

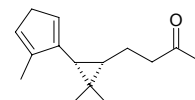
4-(2,2,6-Trimethyl-1-oxaspiro[4,4]non-6-en-3-yl)-butan-2-one $C_{15}H_{24}O_2$ (236.36). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20888 (–)-(7S)-(E)-Taylopyran**

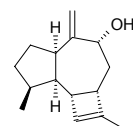
2,2,6-Trimethyl-3-[(E)(2-methylcyclopenta-2-en-1-ylidene)methyl]-3,4-dihydro-2H-pyran $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

**20889 (–)-(6R,7S)-α-Taylorione**

4-[2,2-Dimethyl-3-(5-methylcyclopenta-1,4-dien-1-yl)-cyclopropyl]-butan-2-one $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

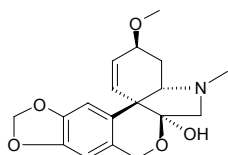
**20890 (1R*,4S*,5S*,6R*,7S*,9R*)-Taynudol**

2,8-Dimethyl-5-methylene-2a,3,4,5,5a,6,7,8,8a,8b-decahydro-cyclobuta[e]azulen-4-ol $C_{15}H_{22}O$ (218.34). Colorless oil. [Source](#): XIAO E TAI *Mylia taylorii* (essential oil), LUO XIAO E TAI *Mylia nuda* (essential oil). [Ref](#): 3840.

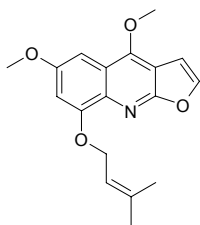


20891 Tazettine

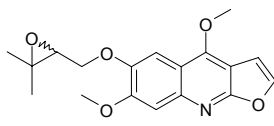
Sekisanine; Seqisanoline; Ungernine [507-79-9] $C_{18}H_{21}NO_5$ (331.37). mp 210~211°C (vacuum), mp 237~238°C, $[\alpha]_D^{25} = +150.3^\circ$ (chloroform), soluble in methanol, ethanol, chloroform, slightly soluble in ether.^[5507] **Pharm:** AChE inhibitor ($IC_{50} = (705 \pm 63) \mu\text{mol/L}$; control Galanthamine, $IC_{50} = (1.9 \pm 0.16) \mu\text{mol/L}$)^[4944]. **Source:** DA YI ZHI JIAN *Lycoris aurea*, GAN FENG CAO *Zephyranthes candida*, SHI SUAN *Lycoris radiata* [Syn. *Amaryllis radiata*], SHUI GUI JIAO YE *Hymenocallis littoralis* [Syn. *Hymenocallis americana*; *Pancratium littoralis*], DUO HUA SHUI XIAN *Narcissus tazetta* (in 1956, the compound was isolated from the plant by T.Ikeda et al.)^[5505], SHUI XIAN GEN *Narcissus tazetta* var. *chinensis*, WEN SHU LAN *Crinum asiaticum* var. *sinicum*, *Cyrtanthus falcatus*. **Ref:** 6, 4952, 5505, 5507.

**20892 Tecleabine**

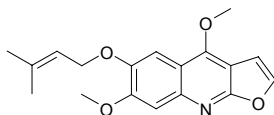
4,6-Dimethoxy-8-prenyloxyfuroquinoline $C_{18}H_{19}NO_4$ (313.36). Needles, mp 107~108°C. **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts). **Ref:** 3503.

**20893 Tecleanatalensine A**

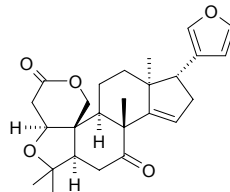
Tecleoxine; 6-[(2,3-Epoxy-3-methylbutyl)oxy]-4,7-dimethoxyfuro[2,3-b]quinoline $C_{18}H_{19}NO_5$ (329.36). Needles, mp 120~12°C, $[\alpha]_D = +10^\circ$ ($c = 0.05$, MeOH); pale yellow gum, $[\alpha]_D = +11^\circ$ ($c = 0.19$, CH_2Cl_2). **Source:** GAO GUI YOU MU YUN XIANG *Teclea nobilis* (aerial parts), *Teclea natalensis* (leaf). **Ref:** 3503, 5267.

**20894 Tecleanatalensine B**

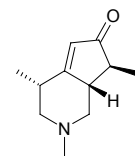
4,7-Dimethoxy-6-[(3-methyl-2-butenyl)oxy]furo[2,3-b]quinoline $C_{18}H_{19}NO_4$ (313.36). Pale yellow gum. **Source:** *Teclea natalensis* (leaf). **Ref:** 5267.

**20895 Tecleanin**

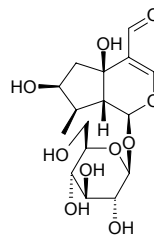
$C_{26}H_{32}O_5$ (424.54). **Source:** DA YE YOU MU YUN XIANG *Teclea grandifolia*, *Teclea oubanguiensis*, *Turraea wakefieldii* (root cortex). **Ref:** 3459.

**20896 Tecomanine**

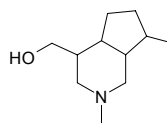
$C_{11}H_{17}NO$ (179.26). Liquid, bp 125°C/0.1mmHg, $[\alpha]_D^{24} = -175^\circ$ ($c = 1.17$, chloroform). **Pharm:** Hypoglycemic; LD (mus) = 300mg/kg. **Source:** HUANG ZHONG HUA *Tecoma stans*. **Ref:** 1437.

**20897 Tecomoside**

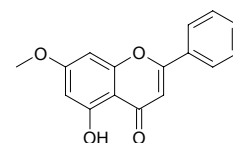
$C_{16}H_{24}O_{10}$ (376.36). **Source:** ZI WEI JING YE *Campsis grandiflora*. **Ref:** 660.

**20898 Tecostanine**

$C_{11}H_{21}NO$ (183.30). mp 85°C, $[\alpha]_D^{20} = (0 \pm 2)^\circ$ (methanol); hydrochloride: mp 262°C, methyl iodide: mp 245°C. **Pharm:** Hypoglycemic. **Source:** HUANG ZHONG HUA *Tecoma stans*. **Ref:** 661.

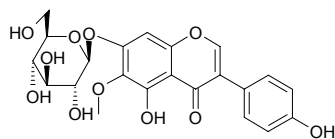
**20899 Tectochrysin**

5-Hydroxy-7-methoxyflavone $C_{16}H_{12}O_4$ (268.27). Yellow slice crystals (methanol), mp 163°C. **Pharm:** Anti-inflammatory (NO production Inhibitor, *in vitro*, LPS-activated mouse peritoneal macrophages, $IC_{50} = 23 \mu\text{mol/L}$; control *L*-NMMA, $IC_{50} = 28 \mu\text{mol/L}$)^[4655], β -hexosaminidase release inhibitor (RBL-2H3 Cells, 100 $\mu\text{mol/L}$, InRt = 75.1%; control Curcumin, InRt = 62.6%)^[4655]. **Source:** SHAN YANG *Populus davidiana*, *Nuxia sphaerocephala* (leaf), YI ZHI REN *Alpinia oxyphylla* (fruit: yield = 0.0013%dw)^[4655]. **Ref:** 2212, 4419, 4655.

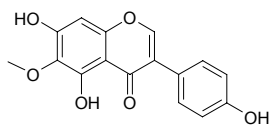


20900 Tectoridin

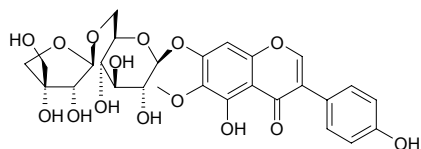
Tectorigin; Shekanin C₂₂H₂₂O₁₁ (462.41). mp 258°C. Pharm: Antioxidant (OH• radical scavenger)^[2452]; anti-inflammatory (TPA-stimulated rat peritoneal macrophages, inhibits PGE₂ production)^[4415]; anti-angiogenic (chick embryo, 30μg/egg, InRt = 35.0%, control *trans*-Retinoic acid, 1μg/egg, InRt = 77.3%)^[5423]; antiproliferative (CPAE cell, 100μmol/L, InRt = 43.6%, control Genistein, InRt = 56.4%, IC₅₀ = 66.9μmol/L)^[5423]; antineoplastic (ICR mouse bearing sarcoma 180, ip dose of 30mg/(kg·d) for 10days, inhibition of tumor volume by 24.8%)^[5423]. Source: BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: mean content = 0.86%)^[5508], HE AN HUANG TAN *Dalbergia riparia*, SHE GAN *Belamcanda chinensis* (dried rhizome: mean content = 1.72%)^[5508], YUAN WEI *Iris tectorum*. Ref: 6, 658, 2452, 4128, 4415, 5423, 5508.

**20901 Tectorigenin**

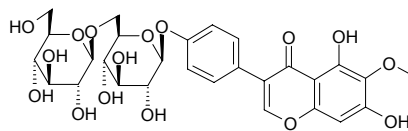
C₁₆H₁₂O₆ (300.27). mp 227°C (dec). Pharm: Antifungal^[2452]; free radical scavenger (O₂⁻, •OH and H₂O₂ free radical)^[2452]; anti-inflammatory (TPA-stimulated rat peritoneal macrophages, inhibits PGE₂ production)^[4415]; anti-angiogenic (chick embryo, 30μg/egg, InRt = 80.0%, control *trans*-Retinoic acid, 1μg/egg, InRt = 77.3%)^[5423]; antiproliferative (CPAE cell, 100μmol/L, InRt = 55.0%, IC₅₀ = 67.9μmol/L, control Genistein, InRt = 56.4%, IC₅₀ = 66.9μmol/L)^[5423]; antineoplastic (mouse implanted with murine Lewis lung carcinoma (LLC), sc dose of 30mg/(kg·d) for 20 days, inhibition of tumor volume by 30.8%)^[5423]; antineoplastic (ICR mouse bearing sarcoma 180, ip dose of 30mg/(kg·d) for 10days, inhibition of tumor volume by 44.2%)^[5423]. Source: BAI HUA SHE GAN *Iris dichotoma* (dried rhizome: content = 0.87%)^[5508], CI MANG BING HUA *Ononis spinosa*, DE GUO YUAN WEI *Iris germanica*, SHE GAN *Belamcanda chinensis* (dried rhizome: content = 1.37%)^[5508], YUAN WEI *Iris tectorum* (dried rhizome: content = 3.14%)^[5508], *Dalbergia* sp. Ref: 6, 658, 2452, 4128, 4415, 5423, 5501, 5508.

**20902 Tectorigenin-7-O-[β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside]**

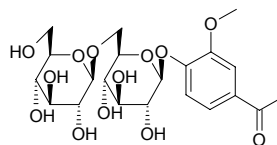
C₂₇H₃₀O₁₅ (594.53). Yellow amorphous powder, [α]_D²⁵ = -67.0° (c = 0.28, MeOH). Source: YIN DU HUANG TAN *Dalbergia sissoo* (stem and leaf-bark). Ref: 5172.

**20903 Tectorigenin-4'-glucosyl(1→6)glucoside**

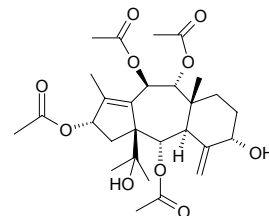
C₂₈H₃₂O₁₆ (624.56). Yellow amorphous powder. Source: AI JI ZHONG ZHI YUAN WEI *Iris cartholiniae*. Ref: 1880.

**20904 Tectoruside**

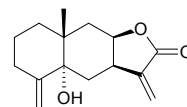
C₂₁H₃₀O₁₃ (490.47). mp 207~209°C. Source: YUAN WEI *Iris tectorum* (rhizome). Ref: 6, 660.

**20905 Teixidol**

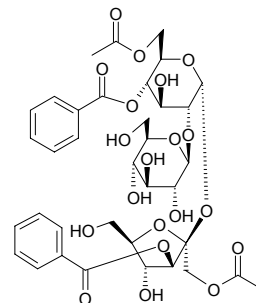
C₂₈H₄₀O₁₀ (536.63). mp 159°C, [α]_D = -15.91° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**20906 Telekin**

C₁₅H₂₀O₃ (248.32). Source: TIAN MING JING *Carpesium abrotanoides*, MEI LI TE LE JU *Telekia speciosa*. Ref: 660.

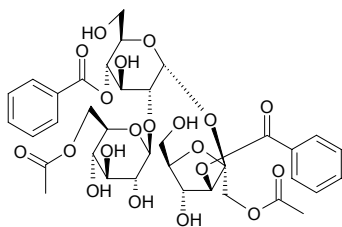
**20907 Telephiose A**

C₃₆H₄₄O₂₀ (796.74). [α]_D = -11.0°. Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

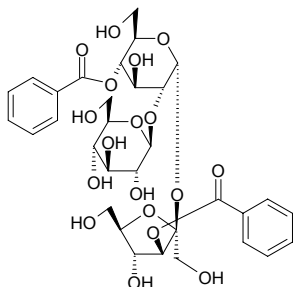


20908 Telephiose B

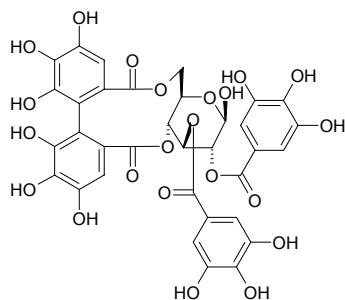
$C_{36}H_{44}O_{20}$ (796.74). $[\alpha]_D = -17.6^\circ$. Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

**20909 Telephiose C**

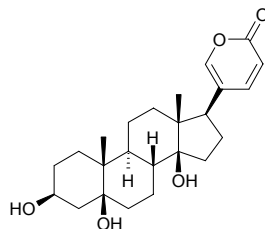
$C_{32}H_{40}O_{18}$ (712.66). $[\alpha]_D = -19.5^\circ$. Source: XIAO HUA YUAN ZHI *Polygala telephioides*. Ref: 2184, 4044.

**20910 Tellimagrandin I**

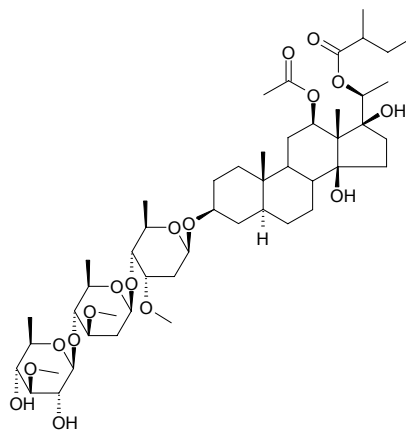
1-Desgalloylgeniinin $C_{34}H_{26}O_{22}$ (786.57). Pharm: Antihepatotoxin; inhibits lipolysis (rat fat cells, induced by adrenaline); antioxidant (SOD-like activity, $EC_{50} = 53.4 \mu\text{mol/L}$, control Gallic acid, $EC_{50} = 31.7 \mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 34.6 \mu\text{mol/L}$)^[3408]; antioxidant (DPPH scavenger, $EC_{50} = 0.79 \mu\text{mol/L}$, control Gallic acid, $EC_{50} = 5.88 \mu\text{mol/L}$, *L*-Ascorbic acid, $EC_{50} = 6.25 \mu\text{mol/L}$)^[3408]. Source: BAI SHAO *Paeonia albiflora* [Syn. *Paeonia lactiflora*] (fresh fruit: yield = 0.019%fw)^[4695], DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*], DUO ZHI AN *Eucalyptus viminalis*, FAN SHI LIU GAN *Psidium guajava*, FEI YUE GUO *Feijoa sellowiana*, HU TAO REN *Juglans regia*, SHAN CHA *Camellia japonica*, SHUI YANG MEI *Geum japonicum*, XIN SHAO NA CAO *Tellima grandifolia*, *Rosa* sp., *Quercus* sp., *Fuchsia* sp. Ref: 658, 3408, 4695.

**20911 Telocinobufagin**

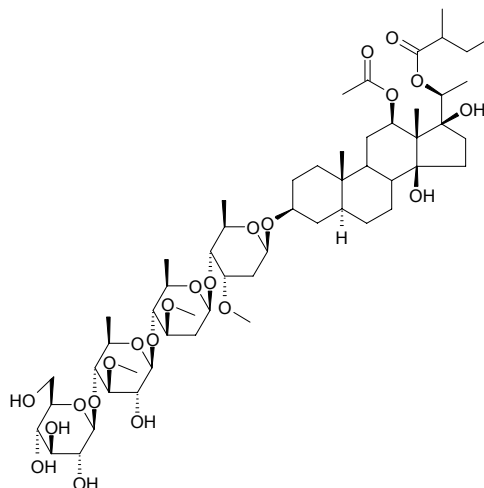
$C_{24}H_{34}O_5$ (402.54). mp 160°C , $207\sim 211^\circ\text{C}$. Pharm: Cytotoxic (*in vitro*, KB, $IC_{50} = 1.3 \mu\text{g/mL}$; HL-60, $IC_{50} < 0.01 \mu\text{g/mL}$; MH-60, $IC_{50} > 25 \mu\text{g/mL}$)^[3082]. Source: CHAN SU *Bufo bufo gargarizans* (dried secretion: content = 0.44%)^[5508]; *Bufo melanostictus* (dried secretion: content = 0.03%)^[5508]. Ref: 2, 3082, 5508.

**20912 Telosmoside A₁**

Telosmogenin I 3-*O*- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside $C_{49}H_{82}O_{17}$ (943.19). White amorphous powder, $[\alpha]_D^{30} = -9.6^\circ$ ($c = 2.80$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

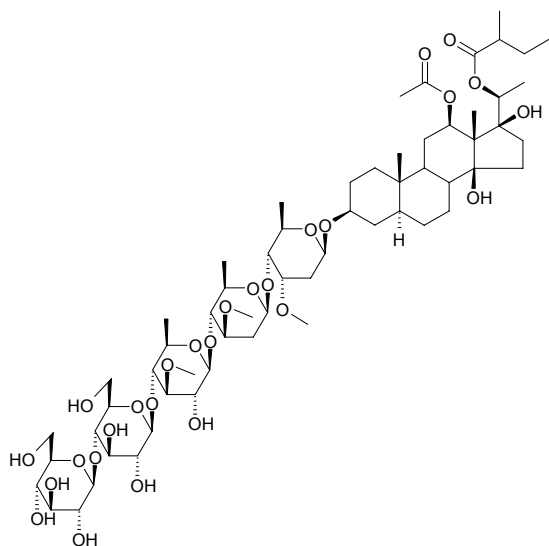
**20913 Telosmoside A₂**

Telosmogenin I 3-*O*- β -*D*-glucopyranosyl-(1 \rightarrow 4)- β -*D*-thevetopyranosyl-(1 \rightarrow 4)- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside $C_{55}H_{92}O_{22}$ (1105.33). White amorphous powder, $[\alpha]_D^{31} = -2.2^\circ$ ($c = 1.79$, MeOH). Pharm: Bitter. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

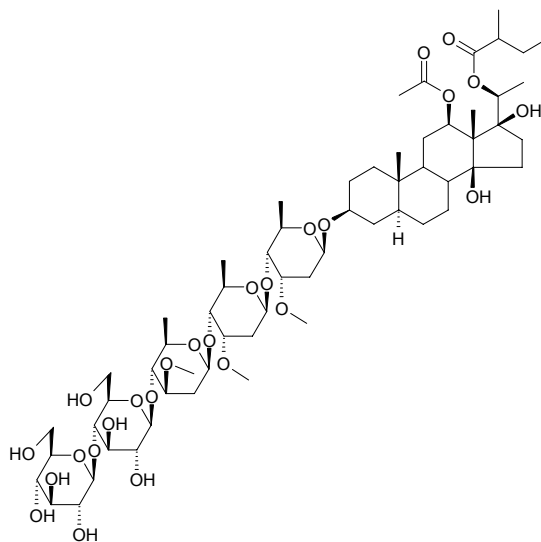


20914 Telosmoside A₃

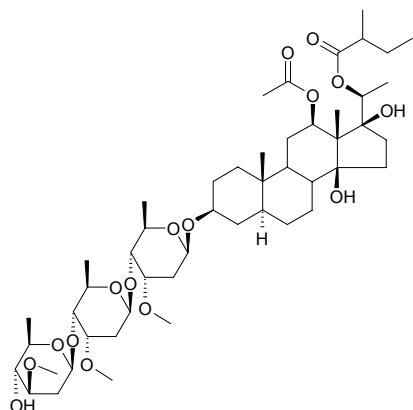
C₆₁H₁₀₂O₂₇ (1267.48). White amorphous powder, $[\alpha]_D^{31} = -0.7^\circ$ ($c = 1.49$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20916 Telosmoside A₅**

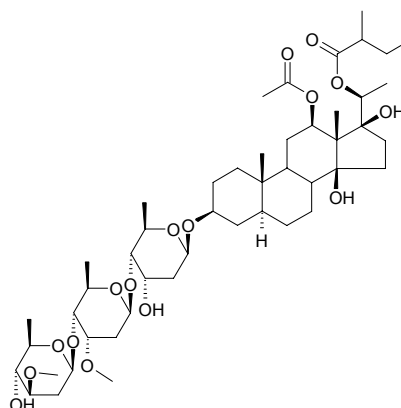
C₆₁H₁₀₂O₂₆ (1251.48). White amorphous powder, $[\alpha]_D^{21} = +2.0^\circ$ ($c = 0.51$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20915 Telosmoside A₄**

Telosmogenin I 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranoside C₄₉H₈₂O₁₆ (927.19). White amorphous powder, $[\alpha]_D^{30} = +1.2^\circ$ ($c = 0.87$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

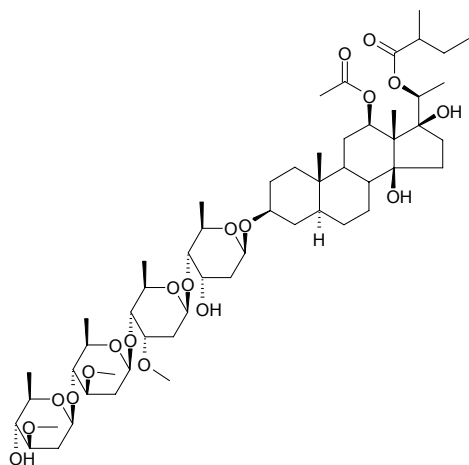
**20917 Telosmoside A₆**

Telosmogenin I 3-*O*- β -*D*-oleandropyranosyl-(1 \rightarrow 4)- β -*D*-cymaropyranosyl-(1 \rightarrow 4)- β -*D*-digitoxopyranoside C₄₈H₈₀O₁₆ (913.16). White amorphous powder, $[\alpha]_D^{30} = -6.8^\circ$ ($c = 1.76$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

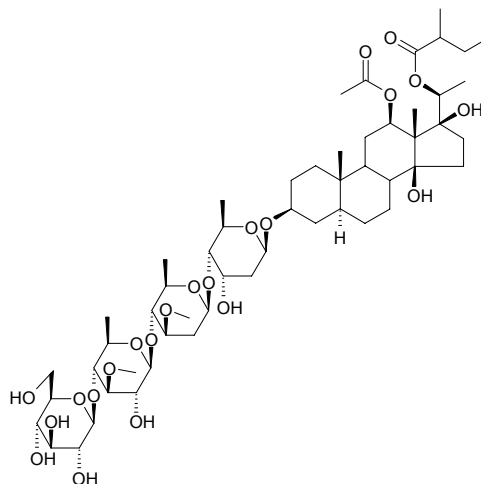


20918 Telosmoside A₇

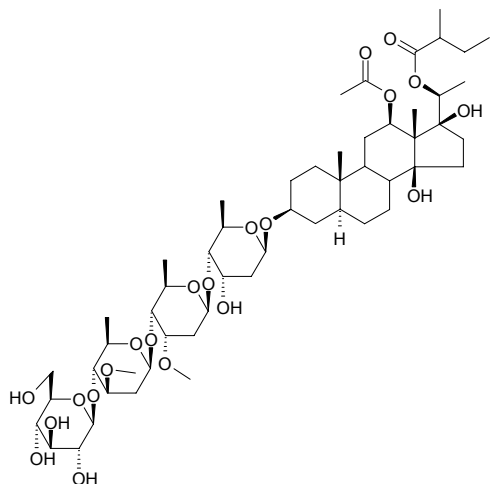
C₅₅H₉₂O₁₉ (1057.19). White amorphous powder, $[\alpha]_D^{30} = -8.3^\circ$ ($c = 1.92$, MeOH). Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20920 Telosmoside A₉**

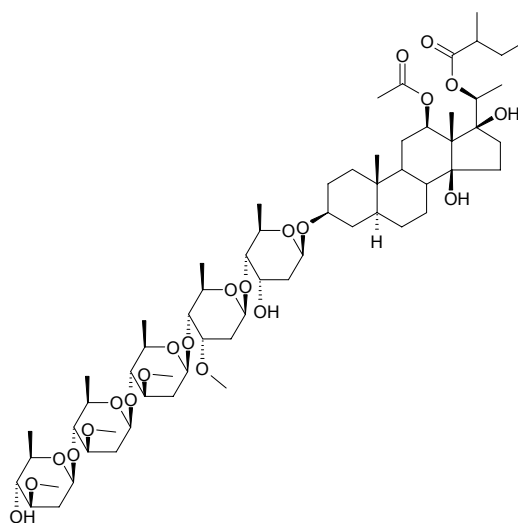
Telosmogenin I 3-*O*- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside C₅₄H₉₀O₂₂ (1091.31). White amorphous powder, $[\alpha]_D^{30} = -6.0^\circ$ ($c = 0.67$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20919 Telosmoside A₈**

C₅₄H₉₀O₂₁ (1075.31). White amorphous powder, $[\alpha]_D^{30} = -2.3^\circ$ ($c = 0.89$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

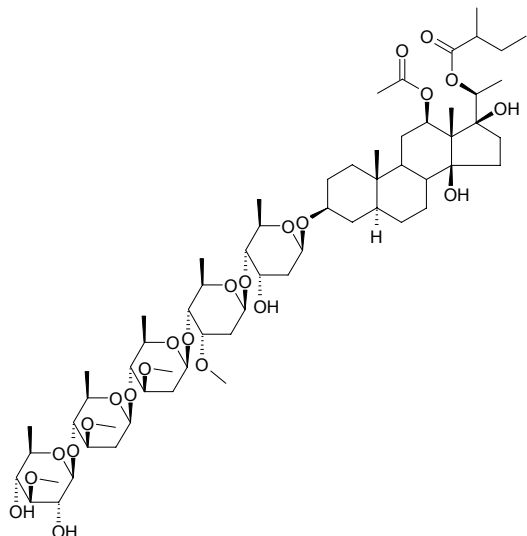
**20921 Telosmoside A₁₀**

C₆₂H₁₀₄O₂₂ (1201.51). White amorphous powder, $[\alpha]_D^{21} = +7.6^\circ$ ($c = 0.53$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

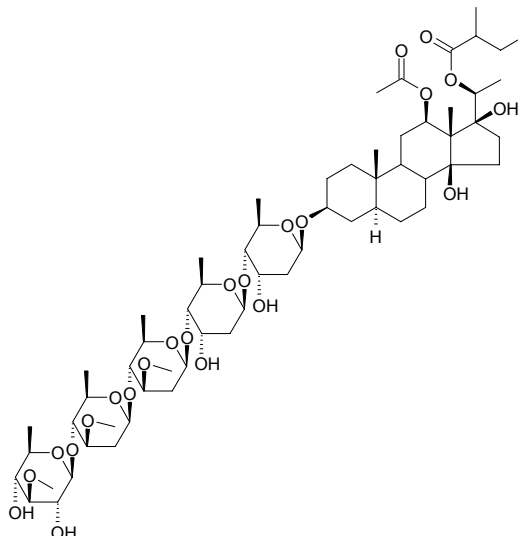


20922 Telosmoside A₁₁

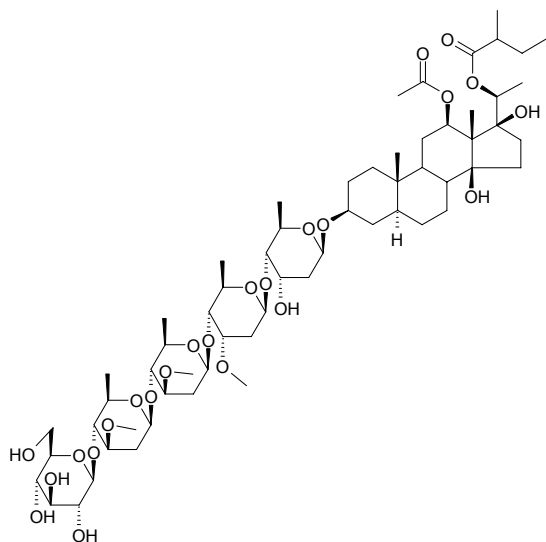
C₆₂H₁₀₄O₂₃ (1217.51). White amorphous powder, $[\alpha]_D^{31} = -7.0^\circ$ ($c = 1.85$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20924 Telosmoside A₁₃**

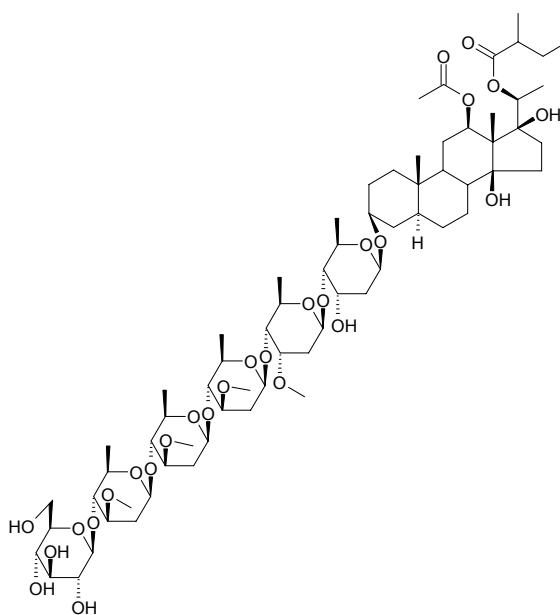
C₆₁H₁₀₂O₂₃ (1203.48). White amorphous powder, $[\alpha]_D^{31} = -16.3^\circ$ ($c = 1.41$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

**20923 Telosmoside A₁₂**

C₆₁H₁₀₂O₂₄ (1219.48). White amorphous powder, $[\alpha]_D^{30} = -5.0^\circ$ ($c = 2.38$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

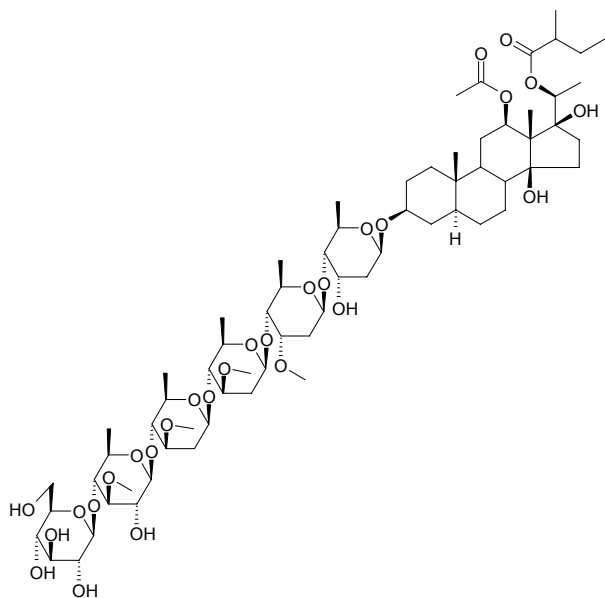
**20925 Telosmoside A₁₄**

C₆₈H₁₁₄O₂₇ (1363.65). White amorphous powder, $[\alpha]_D^{21} = -7.5^\circ$ ($c = 3.05$, MeOH). Pharm: Sweetener. Source: WO JING YE LAI XIANG *Telosma procumbens* (stem). Ref: 3518.

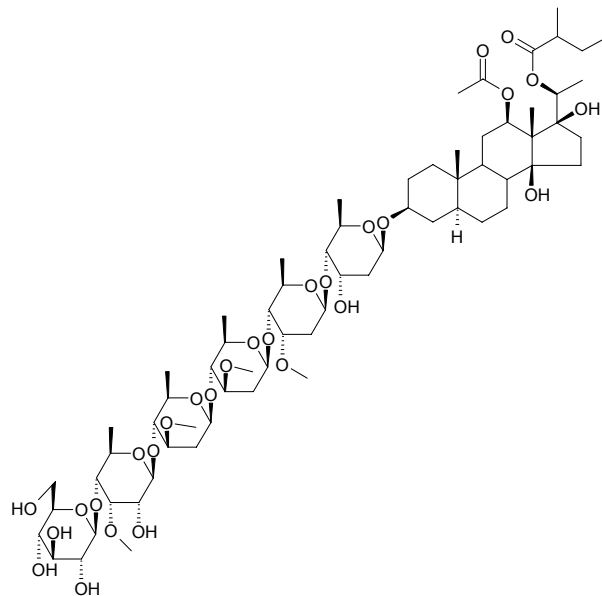


20926 Telosmoside A₁₅

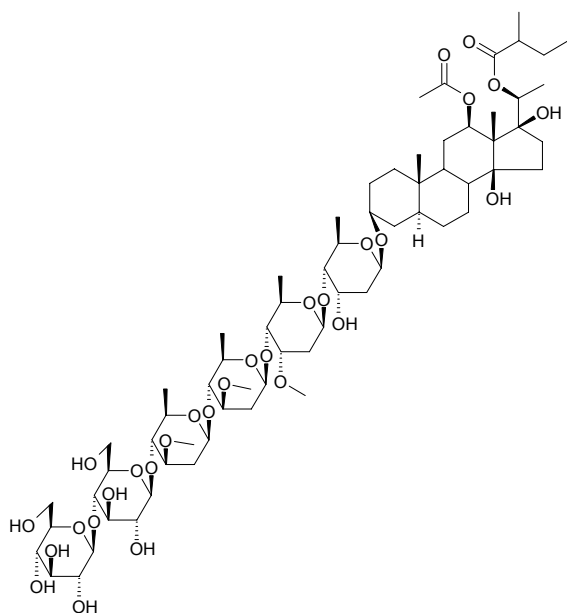
C₆₈H₁₁₄O₂₈ (1379.65). White amorphous powder, $[\alpha]_D^{31} = +3.7^\circ$ ($c = 1.35$, MeOH). **Pharm:** Sweetener (its sweetness intensity is 1000 times greater than that of sucrose). **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20928 Telosmoside A₁₇**

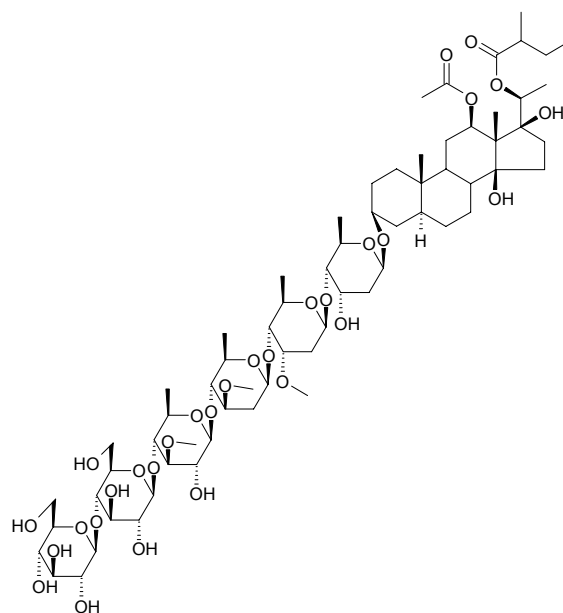
C₆₈H₁₁₄O₂₈ (1379.65). White amorphous powder, $[\alpha]_D^{30} = +2.0^\circ$ ($c = 2.51$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

**20927 Telosmoside A₁₆**

C₆₇H₁₁₂O₂₉ (1381.62). White amorphous powder, $[\alpha]_D^{30} = +6.0^\circ$ ($c = 2.51$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

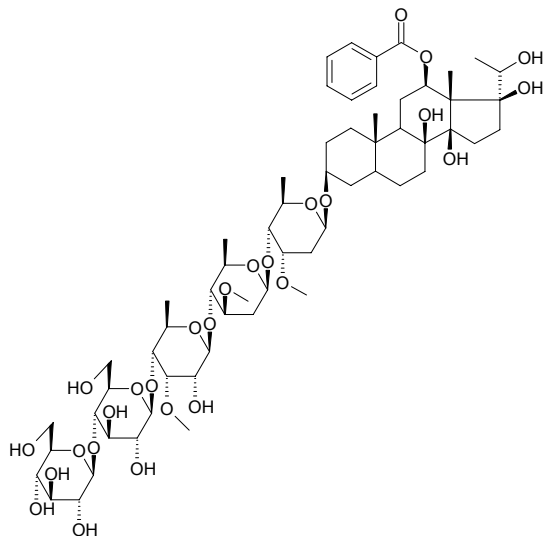
**20929 Telosmoside A₁₈**

C₆₇H₁₁₂O₃₀ (1397.62). White amorphous powder, $[\alpha]_D^{31} = +4.7^\circ$ ($c = 1.93$, MeOH). **Pharm:** Sweetener. **Source:** WO JING YE LAI XIANG *Telosma procumbens* (stem). **Ref:** 3518.

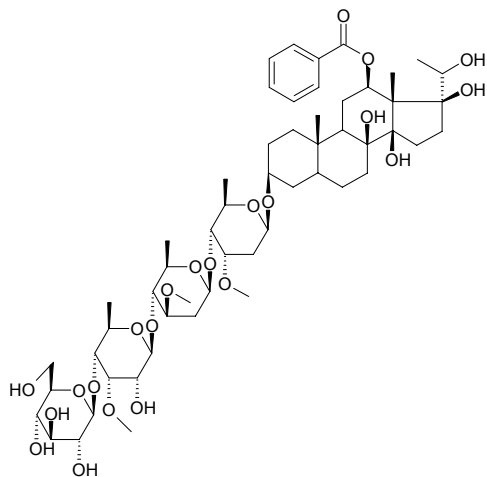


20930 Tenacissoside J

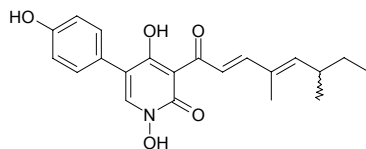
$C_{61}H_{96}O_{27}$ (1261.43). White powder ($CHCl_3$). Source: TONG GUANG TENG *Marsdenia tenacissima*. Ref: 4837.

**20931 Tenacissoside K**

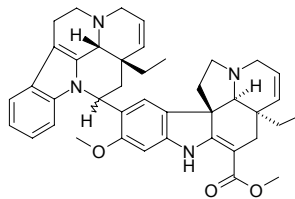
$C_{55}H_{86}O_{22}$ (1099.29). White powder ($CHCl_3$). Source: TONG GUANG TENG *Marsdenia tenacissima*. Ref: 4837.

**20932 Tenellin**

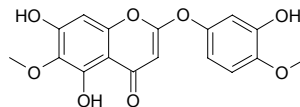
$C_{21}H_{23}NO_5$ (369.42). Source: BAI JIANG CAN *Bombyx mori*, BAI JIANG JUN *Beauveria bassiana*. Ref: 660.

**20933 Tenuicausine**

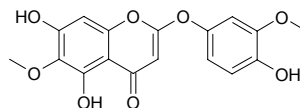
[119212-24-7] $C_{41}H_{46}N_4O_3$ (642.85). Source: BO YE SHAN CHENG *Melodinus tenuicaudatus*. Ref: 553.

**20934 Tenuiflorin A**

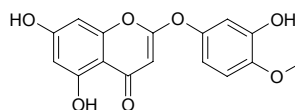
5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)-6-methoxychromone $C_{17}H_{14}O_8$ (346.30). White-brownish crystals, mp 185~187°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20935 Tenuiflorin B**

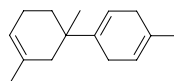
5,7-Dihydroxy-2-(4-hydroxy-3-methoxyphenoxy)-6-methoxychromone $C_{17}H_{14}O_8$ (346.30). White-brownish crystals, mp 212~214°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20936 Tenuiflorin C**

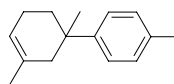
5,7-Dihydroxy-2-(3-hydroxy-4-methoxyphenoxy)chromone $C_{16}H_{12}O_7$ (316.27). White-brownish crystals, mp 283~285°C. Source: XI HUA HAN XIU CAO *Mimosa tenuiflora* (leaf). Ref: 4990.

**20937 Tenuifolene**

4-(1,3-Dimethylcyclohexenyl)-1-methyl-1,4-cyclohexadiene $C_{15}H_{20}$ (200.33). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

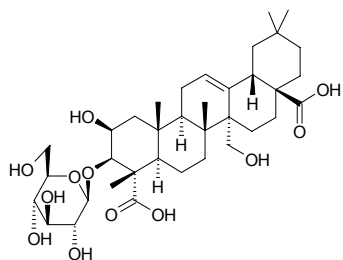
**20938 ar-Tenuifolene**

4-(1,3-Dimethylcyclohexenyl)-1-methylbenzene $C_{15}H_{22}$ (202.34). Colorless oil. Source: XIAO HUA SHA ZHEN *Osyris tenuifolia* (essential oil). Ref: 3821.

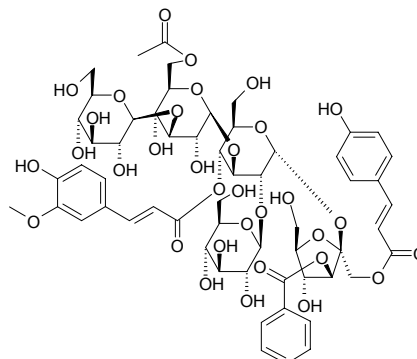


20939 Tenuifolin

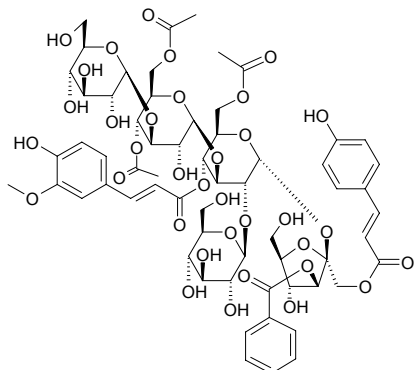
$C_{36}H_{56}O_{12}$ (680.84). mp 298–300°C. Source: YUAN ZHI *Polygala tenuifolia*. Ref: 2.

**20942 Tenuifoliose C**

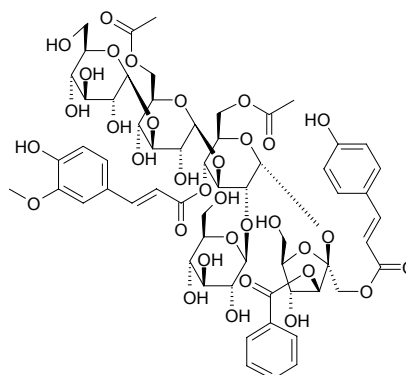
$C_{58}H_{72}O_{33}$ (1297.20). $[\alpha]_D = -52.8^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20940 Tenuifoliose A**

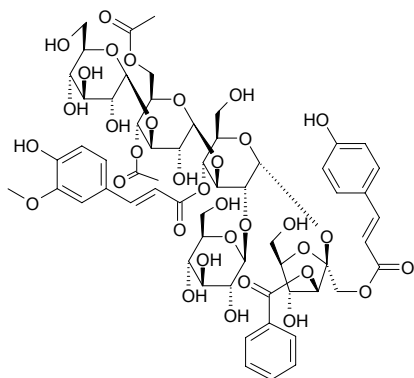
$C_{62}H_{76}O_{35}$ (1381.28). $[\alpha]_D = -32.8^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20943 Tenuifoliose D**

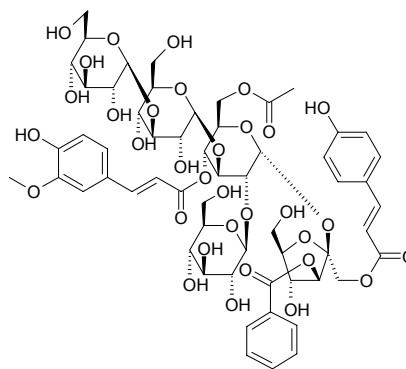
$C_{60}H_{74}O_{34}$ (1339.24). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20941 Tenuifoliose B**

$C_{60}H_{74}O_{34}$ (1339.24). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

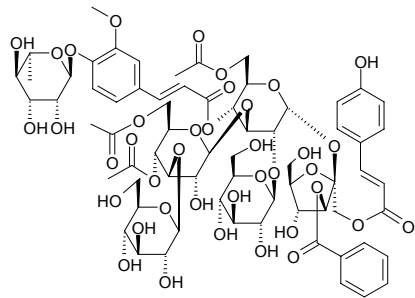
**20944 Tenuifoliose E**

$C_{58}H_{72}O_{33}$ (1297.20). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

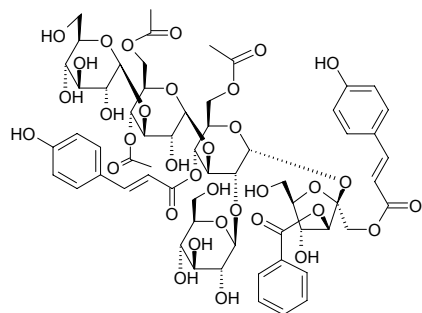


20945 Tenuifoliose F

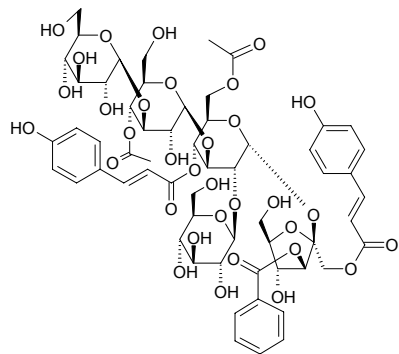
$C_{68}H_{86}O_{39}$ (1527.42). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20946 Tenuifoliose H**

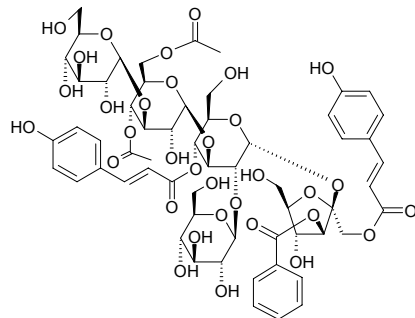
$C_{61}H_{74}O_{34}$ (1351.25). $[\alpha]_D = -26.3^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20947 Tenuifoliose I**

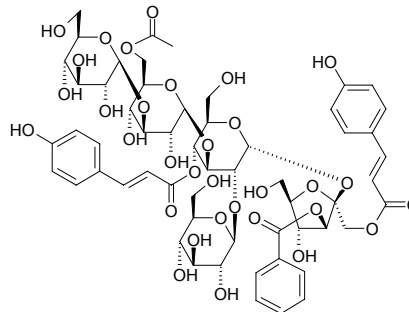
$C_{59}H_{72}O_{33}$ (1309.21). $[\alpha]_D = -9.1^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20948 Tenuifoliose J**

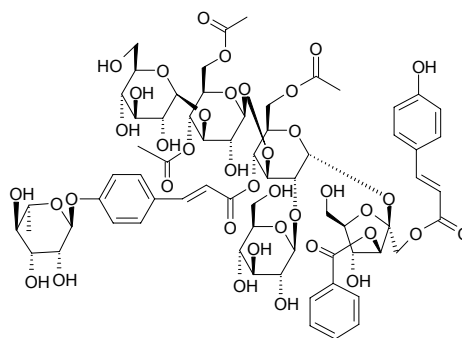
$C_{59}H_{72}O_{33}$ (1309.21). $[\alpha]_D = -35.9^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20949 Tenuifoliose K**

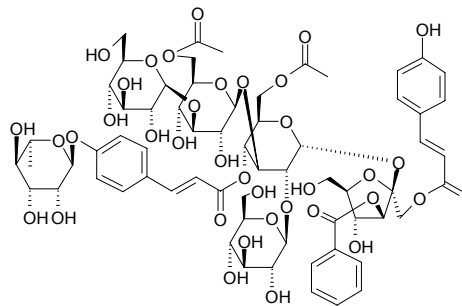
$C_{57}H_{70}O_{32}$ (1267.17). $[\alpha]_D = -3.2^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20950 Tenuifoliose L**

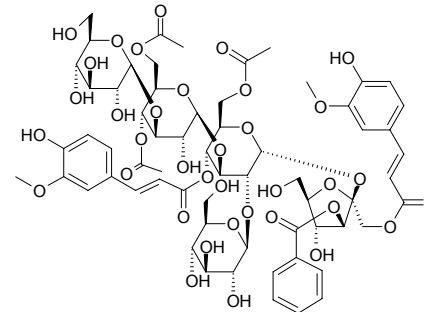
$C_{67}H_{84}O_{39}$ (1513.39). $[\alpha]_D = -59.2^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 1521, 2184.

**20951 Tenuifoliose M**

$C_{65}H_{82}O_{37}$ (1455.36). $[\alpha]_D = -29.2^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 1521, 2184.

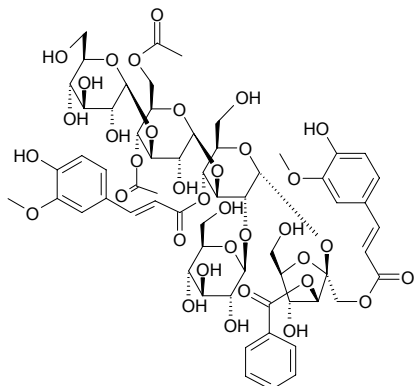
**20952 Tenuifoliose N**

$C_{63}H_{78}O_{36}$ (1411.30). $[\alpha]_D = -26.6^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

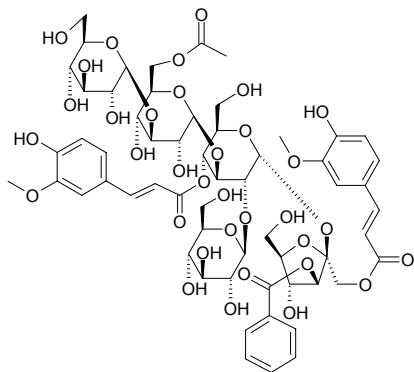


20953 Tenuifoliose O

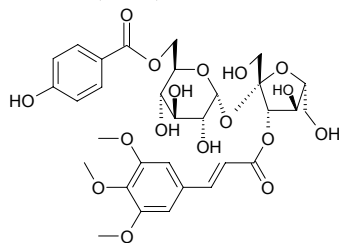
$C_{61}H_{76}O_{35}$ (1369.26). $[\alpha]_D = -17.4^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20954 Tenuifoliose P**

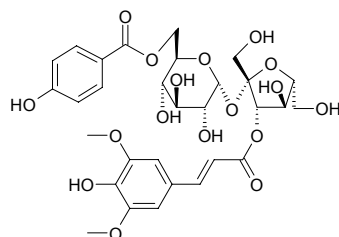
$C_{59}H_{74}O_{34}$ (1327.23). $[\alpha]_D = -7.7^\circ$. Source: KU WEI YUAN ZHI *Polygala amarella*. Ref: 2184.

**20955 Tenuifoliside A**

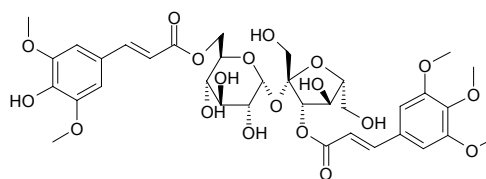
$C_{31}H_{38}O_{17}$ (682.64). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20956 Tenuifoliside B**

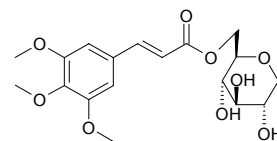
$C_{30}H_{36}O_{17}$ (668.61). Source: YUAN ZHI *Polygala tenuifolia*. Ref: 660.

**20957 Tenuifoliside C**

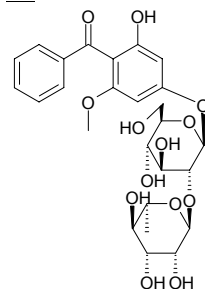
[139726-37-7] $C_{35}H_{44}O_{19}$ (768.73). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20958 Tenuifoliside D**

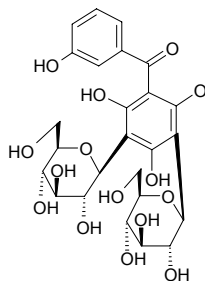
[139726-38-8] $C_{18}H_{24}O_9$ (384.39). Source: KU WEI YUAN ZHI *Polygala amarella*, YUAN ZHI *Polygala tenuifolia*. Ref: 660, 2184.

**20959 Tenuiphenone A**

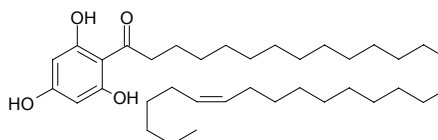
4-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl]-2-hydroxyl-6-methoxybenzophenone $C_{26}H_{32}O_{13}$ (552.54). Yellow amorphous powder, $[\alpha]_D^{25} = +62.3^\circ$ ($c = 0.10$, MeOH). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**20960 Tenuiphenone B**

3,5-Di-C- β -glucopyranosyl-2,4,6,3'-tetrahydroxybenzophenone $C_{25}H_{30}O_{15}$ (570.51). Yellow amorphous powder, $[\alpha]_D^{25} = +61.3^\circ$ ($c = 0.11$, MeOH). Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.

**20961 Tenuiphenone C**

2',4',6'-Trihydroxyphenyl-(24Z)-triacontene-1-one $C_{36}H_{62}O_4$ (558.89). White solid (acetone), mp 197~200°C. Source: YUAN ZHI *Polygala tenuifolia* (cortex). Ref: 4507.



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