



Biological Source: Isol. from *Epimedium* spp.

Biological Use/Importance: Immunostimulant, neuronal injury inhibitor, antineoplastic agent, calcium regulator

Physical Description: Yellow needles (Py aq.)

Melting Point: Mp 231-235° (226-229°)

Optical Rotation: $[\alpha]_{\text{D}}^{15} -87.1$ (Py)

>> **Derivative:** 4'-Me ether, 3-*O*-[β-D-glucopyranosyl-(1→2)-3-*O*-acetyl-α-L-rhamnopyranoside]

Synonym(s): Sagittatoside C

CAS Registry Number: 118525-37-4

Molecular Formula: C₃₅H₄₂O₁₆

Molecular Weight: 718.707

Accurate Mass: 718.24729

Percentage Composition: C 58.49%; H 5.89%; O 35.62%

Biological Source: Isol. from *Epimedium sagittatum*

Physical Description: Yellow powder

Melting Point: Mp 143-144°

>> **Derivative:** 4'-Me ether, 3-*O*-[β-D-xylopyranosyl-(1→2)-α-L-rhamnopyranoside], 7-*O*-β-D-glucopyranoside

Synonym(s): Epimedin B

CAS Registry Number: 110623-73-9

Molecular Formula: C₃₈H₄₈O₁₉

Molecular Weight: 808.786

Accurate Mass: 808.278985

Percentage Composition: C 56.43%; H 5.98%; O 37.59%

Biological Source: Isol. from *Epimedium* spp. and *Vancouveria hexandra*

>> **Derivative:** 4'-Me ether, 3-*O*-[β-D-glucopyranosyl-(1→3)-4-*O*-acetyl-α-L-rhamnopyranoside]

Synonym(s): Epimedokoreanoside II

CAS Registry Number: 130756-12-6

Molecular Formula: C₃₅H₄₂O₁₆

Molecular Weight: 718.707

Accurate Mass: 718.24729

Percentage Composition: C 58.49%; H 5.89%; O 35.62%

Biological Source: Isol. from *Epimedium koreanum*

Melting Point: Mp 181°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -44.5$ (c, 0.1 in MeOH)

>> **Derivative:** 4'-Me ether, 3-*O*-[6-*O*-acetyl-β-D-glucopyranosyl-(1→3)-4-*O*-acetyl-α-L-rhamnopyranoside]

Synonym(s): Epimedoside, Korepimedoside A

CAS Registry Number: 106441-31-0

Molecular Formula: C₃₇H₄₄O₁₇

Molecular Weight: 760.744

Accurate Mass: 760.257855

Percentage Composition: C 58.42%; H 5.83%; O 35.75%

Biological Source: Constit. of *Epimedium koreanum*

Physical Description: Amorph. yellow powder

Melting Point: Mp 170-171°

>> **Derivative:** 4'-Me ether, 3-*O*-[β-D-galactopyranosyl-(1→3)-α-L-rhamnopyranoside], 7-*O*-β-D-glucopyranoside

Synonym(s): Hexandraside A

CAS Registry Number: 128988-53-4

Molecular Formula: C₃₉H₅₀O₂₀

Molecular Weight: 838.812

Accurate Mass: 838.28955

Percentage Composition: C 55.84%; H 6.01%; O 38.15%

Biological Source: Isol. from *Vancouveria hexandra*

Physical Description: Yellow powder (MeOH)