



CAS Registry Number: 155740-21-9

Molecular Formula: C₅₈H₉₄O₂₅

Molecular Weight: 1191.366

Accurate Mass: 1190.608425

Percentage Composition: C 58.47%; H 7.95%; O 33.57%

Biological Source: Constit. of *Lonicera japonica*

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 218-222°. Mp 224-226°

Optical Rotation: $[\alpha]_D^{25} -70.3$ (c, 0.3 in Py). $[\alpha]_D^{20} -76.3$ (c, 0.2 in MeOH)

>>**Derivative:** 3-*O*-[α -L-Rhamnopyranosyl-(1→2)- α -L-arabinopyranoside], 28-*O*-[α -L-rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→6)- β -D-glucopyranosyl] ester

Synonym(s): Tauroside H₂, Hederoside H₁, Akebiasaponin P_K, Glycoside L-H₂, Kalopanaxsaponin B, Akeboside St_h

CAS Registry Number: 14216-03-6

Molecular Formula: C₅₉H₉₆O₂₆

Molecular Weight: 1221.392

Accurate Mass: 1220.61899

Percentage Composition: C 58.02%; H 7.92%; O 34.06%

Biological Source: Constit. of *Hedera taurica*, *Hedera canariensis* and *Akebia quinata*. Isol. from the roots of *Kalopanax septemlobum* and leaves of *Hedera helix*.

Component of Mu Tong and Mu Tong Gen

Physical Description: Powder + 3H₂O

Melting Point: Mp 212-215 dec.°

Optical Rotation: $[\alpha]_D -18$ (c, 2.76 in MeOH)

>>**Derivative:** 3-*O*-[α -L-Rhamnopyranosyl-(1→2)- α -L-arabinopyranoside], 28-*O*-[α -L-rhamnopyranosyl-(1→4)-6-*O*-acetyl- β -D-glucopyranosyl-(1→6)- β -D-glucopyranosyl] ester

Synonym(s): Kizutasaponin K₁₁

CAS Registry Number: 97240-03-4

Molecular Formula: C₆₁H₉₈O₂₇

Molecular Weight: 1263.429

Accurate Mass: 1262.629555

Percentage Composition: C 57.99%; H 7.82%; O 34.19%

Biological Source: Constit. of *Hedera rhombea*

Physical Description: Cryst.

Melting Point: Mp 187-191 dec.°

Optical Rotation: $[\alpha]_D^{25} -22.1$ (c, 1.4 in MeOH)

>>**Derivative:** 3-*O*-[α -L-Rhamnopyranosyl-(1→2)- β -D-glucopyranoside], 28-*O*-[α -L-rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→6)- β -D-glucopyranosyl] ester

Synonym(s): Glycoside L-I₁, Tauroside St-I₂

CAS Registry Number: 166547-54-2

Molecular Formula: C₆₀H₉₈O₂₇

Molecular Weight: 1251.418

Accurate Mass: 1250.629555

Percentage Composition: C 57.59%; H 7.89%; O 34.52%

Biological Source: Constit. of *Hedera canariensis* and *Hedera taurica*

Optical Rotation: $[\alpha]_D -11$ (c, 0.5 in Py)

>>**Derivative:** 3-*O*-[6-Deoxy- β -D-glucopyranosyl-(1→2)- α -L-arabinopyranoside], 28-*O*-[α -L-rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→6)- β -D-glucopyranosyl] ester

CAS Registry Number: 261767-93-5

Molecular Formula: C₅₉H₉₆O₂₆

Molecular Weight: 1221.392

Accurate Mass: 1220.61899

Percentage Composition: C 58.02%; H 7.92%; O 34.06%

Biological Source: Constit. of *Trevesia palmata*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{25} +25$ (c, 1 in MeOH)