



>>Entry Name: Hederagenin 3-glycosides

>>Variant: Monoglycosides

>>Derivative: 3-*O*- α -L-Arabinopyranoside

Synonym(s): Cauloside A. Kizutasaponin K₃. Leontoside A. β_2 -Fatsin. Fatsiaside B₁. Prosapogenin CP₁. Akeboside St_b. Nepalin 1. Scabioside A. Polypetaloside B. Hederoside A₂. Taurosides B. Glycoside L-B2. Koelreuteriasaponin A. Caulophyllumsaponin A. Akebiasaponin A. Akebiasaponin P_A. Akebiasaponin P_{J2}

CAS Registry Number: 17184-21-3

Molecular Formula: C₃₅H₅₆O₈

Molecular Weight: 604.823

Accurate Mass: 604.39752

Percentage Composition: C 69.51%; H 9.33%; O 21.16%

Biological Source: Widely distributed glycoside from *Patrinia*, *Phytolacca*, *Pulsatilla dahurica*, *Schefflera*, *Caulophyllum*, *Fatsia*, *Hedera*, *Akebia*, *Leontice*, *Koelreuteria* spp. and others

Physical Description: Needles (MeOH)

Melting Point: Mp 228-231°

Optical Rotation: $[\alpha]_D^{25} +67.2$ (c, 0.64 in MeOH)

>>Derivative: 3-*O*-(2-*O*-Acetyl- α -L-arabinopyranoside)

CAS Registry Number: 87562-05-8

Molecular Formula: C₃₇H₅₈O₉

Molecular Weight: 646.86

Accurate Mass: 646.408085

Percentage Composition: C 68.70%; H 9.04%; O 22.26%

Biological Source: From *Patrinia scabiosaeifolia*

Physical Description: Prisms (MeOH)

Melting Point: Mp 226-229°

Optical Rotation: $[\alpha]_D^{20} +68$ (c, 0.05 in MeOH)

>>Derivative: 3-*O*- α -L-Rhamnopyranoside

Synonym(s): Pastuchoside C. Polypetaloside A

CAS Registry Number: 29618-15-3

Molecular Formula: C₃₆H₅₈O₈

Molecular Weight: 618.849

Accurate Mass: 618.41317

Percentage Composition: C 69.87%; H 9.45%; O 20.68%

Biological Source: Constit. of *Hedera pastuchovii*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 254-257°

Optical Rotation: $[\alpha]_D^{20} +43$ (c, 1.2 in MeOH)

>>Derivative: 3-*O*- β -D-Glucopyranoside

Synonym(s): Caulosaponin. Leontin $\ddagger$. Vitalboside B

CAS Registry Number: 39776-12-0

Molecular Formula: C₃₆H₅₈O₉

Molecular Weight: 634.849

Accurate Mass: 634.408085

Percentage Composition: C 68.11%; H 9.21%; O 22.68%

Biological Source: Isol. from roots of *Calophyllum thalictroides*, *Fatsia japonica*, *Aster tataricus* and others

Use/Importance: Oxytotic agent

Physical Description: Needles (EtOH)

Melting Point: Mp 250-255 dec.°

Optical Rotation: $[\alpha]_D^{25} +47.4$ (c, 1.27 in Py)

Calculated Log P Data: Log P 4.32 (calc)