



>>>Derivative: 3-*O*-[α -L-Arabinopyranosyl-(1 $\rightarrow$ 3)- β -D-xylopyranoside]

CAS Registry Number: 286938-44-1

Molecular Formula: C₄₀H₆₄O₁₂

Molecular Weight: 736.938

Accurate Mass: 736.43978

Percentage Composition: C 65.19%; H 8.75%; O 26.05%

Biological Source: Constit. of *Patrinia scabiosaeifolia*

>>>Derivative: 3-*O*-[β -D-Xylopyranosyl-(1 $\rightarrow$ 2)- α -L-arabinopyranoside]

Synonym(s): Akebiasaponin B

CAS Registry Number: 38631-44-6

Molecular Formula: C₄₀H₆₄O₁₂

Molecular Weight: 736.938

Accurate Mass: 736.43978

Percentage Composition: C 65.19%; H 8.75%; O 26.05%

Physical Description: Needles (CHCl₃/MeOH aq.)

Melting Point: Mp 249.5-250.5 dec.°

Optical Rotation: [α]_D +37 (c, 1.05 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, butanol; poorly sol. Et₂O

>>>Derivative: 3-*O*-[β -D-Xylopyranosyl-(1 $\rightarrow$ 3)- α -L-arabinopyranoside]

Synonym(s): Akebiasaponin P_C

CAS Registry Number: 60213-68-5

Molecular Formula: C₄₀H₆₄O₁₂

Molecular Weight: 736.938

Accurate Mass: 736.43978

Percentage Composition: C 65.19%; H 8.75%; O 26.05%

Biological Source: Isol. from *Akebia quinata*

Physical Description: Needles + 1H₂O

Melting Point: Mp 236-240 dec.°

Optical Rotation: [α]_D +45 (c, 2.42 in MeOH)

>>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-arabinopyranoside]

Synonym(s): Hederin. Sapindoside A. Kalopanaxsaponin A. Kizutasaponin K₆. Akebiasaponin P_D. Prosapogenin CP_{3b}. α -Hederin. Hederoside B. Nepalin 2. Tauroside E. Glycoside LE1. Koronaroside A. Calopanaxsaponin A. Helixin

CAS Registry Number: 27013-91-8

Molecular Formula: C₄₁H₆₆O₁₂

Molecular Weight: 750.965

Accurate Mass: 750.45543

Percentage Composition: C 65.58%; H 8.86%; O 25.57%

Biological Source: Isol. from *Anemone coronaria*, *Sapindus*, *Hedera*, *Astrantia* spp. and others

Biological Use/Importance: Haemolytic agent

Melting Point: Mp 214-216°. Mp 256-259 dec.°

Optical Rotation: [α]_D²⁰ +16.5 (c, 4.85 in MeOH)

Hazard & Toxicity: LD₅₀ (mus, orl) >4000 mg/kg. LD₅₀ (mus, ipr) 1800 mg/kg

Sigma: H9264

>>>Derivative: 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 4)- β -D-xylopyranoside]

Synonym(s): Transsylvanoside K

CAS Registry Number: 189307-22-0

Molecular Formula: C₄₁H₆₆O₁₂

Molecular Weight: 750.965

Accurate Mass: 750.45543

Percentage Composition: C 65.58%; H 8.86%; O 25.57%

Biological Source: Constit. of *Cephalaria transsylvanica*

Physical Description: Amorph. powder

Optical Rotation: [α]