



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

CAS Registry Number: 203514-16-3

Molecular Formula: C₄₂H₆₈O₁₃

Molecular Weight: 780.991

Accurate Mass: 780.465995

Percentage Composition: C 64.59%; H 8.78%; O 26.63%

Biological Source: Constit. of *Hedera taurica*

Optical Rotation: [α]_D +11 (c, 1.5 in Py)

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

CAS Registry Number: 148959-31-3

Molecular Formula: C₄₂H₆₈O₁₃

Molecular Weight: 780.991

Accurate Mass: 780.465995

Percentage Composition: C 64.59%; H 8.78%; O 26.63%

Biological Source: Constit. of *Sapindus saponaria*

Physical Description: Cryst. (as per-Ac)

Melting Point: Mp 139-142.2° (as per-Ac)

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

CAS Registry Number: 223646-37-5

Molecular Formula: C₄₂H₆₆O₁₄

Molecular Weight: 794.975

Accurate Mass: 794.44526

Percentage Composition: C 63.46%; H 8.37%; O 28.18%

Biological Source: Constit. of *Atriplex stylosa*

>>Derivative: 3-*O*-[β -D-Galactopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]

Synonym(s): Patensin

CAS Registry Number: 96553-06-9

Molecular Formula: C₄₂H₆₈O₁₄

Molecular Weight: 796.991

Accurate Mass: 796.46091

Percentage Composition: C 63.30%; H 8.60%; O 28.10%

Biological Source: Constit. of *Pulsatilla patens* var. *multifida*

Physical Description: Powder

Melting Point: Mp 270-274°

Optical Rotation: [α]_D²⁵ +50.2 (c, 0.104 in MeOH)

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

Synonym(s): Calthoside D. Cauloside C. Fatsiaside D₁. α -Fatsin. Akebiasaponin C. Hederoside D₂. Caulosaponin B. Caulophyllumsaponin B. Calcoside D. Akebiasaponin P_F

CAS Registry Number: 20853-58-1

Molecular Formula: C₄₁H₆₆O₁₃

Molecular Weight: 766.965

Accurate Mass: 766.450345

Percentage Composition: C 64.21%; H 8.67%; O 27.12%

Biological Source: Isol. from *Fatsia japonica*, *Lonicera nigra*, *Akebia* spp., *Caulophyllum robustum*, *Pulsatilla dahurica* and others

Use/Importance: Shows antifungal, cytotoxic and contraceptive activities

Physical Description: Cryst. (MeOH)

Melting Point: Mp 252-255 dec.°

Optical Rotation: [α]_D²⁰ +38.7 (c, 0.56 in DMSO)

Calculated Log P Data: Log P 2.8 (uncertain value) (calc)

Other Data: α -Fatsin originally assigned incorrect struct.