



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

CAS Registry Number: 203514-16-3

**Molecular Formula:** C<sub>42</sub>H<sub>68</sub>O<sub>13</sub>

**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:** [ $\alpha$ ]<sub>D</sub> +11 (c, 1.5 in Py)

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

CAS Registry Number: 148959-31-3

**Molecular Formula:** C<sub>42</sub>H<sub>68</sub>O<sub>13</sub>

**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*-[ $\alpha$ -L-Rhamnopyranosyl-(1 $\rightarrow$ 3)- $\beta$ -D-glucuronopyranoside]

CAS Registry Number: 223646-37-5

**Molecular Formula:** C<sub>42</sub>H<sub>66</sub>O<sub>14</sub>

**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*-[ $\beta$ -D-Galactopyranosyl-(1 $\rightarrow$ 2)- $\beta$ -D-glucopyranoside]

**Synonym(s):** Patensin

CAS Registry Number: 96553-06-9

**Molecular Formula:** C<sub>42</sub>H<sub>68</sub>O<sub>14</sub>

**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:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> +50.2 (c, 0.104 in MeOH)

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

**Synonym(s):** Calthoside D. Cauloside C. Fatsiaside D<sub>1</sub>.  $\alpha$ -Fatsin. Akebiasaponin C. Hederoside D<sub>2</sub>. Caulosaponin B. Caulophyllumsaponin B. Calcoside D. Akebiasaponin P<sub>F</sub>

CAS Registry Number: 20853-58-1

**Molecular Formula:** C<sub>41</sub>H<sub>66</sub>O<sub>13</sub>

**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:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> +38.7 (c, 0.56 in DMSO)

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

**Other Data:**  $\alpha$ -Fatsin originally assigned incorrect struct.