



**CAS Registry Number:** 35790-95-5

**Molecular Formula:** C<sub>41</sub>H<sub>66</sub>O<sub>11</sub>

**Molecular Weight:** 734.966

**Accurate Mass:** 734.460515

**Percentage Composition:** C 67.00%; H 9.05%; O 23.95%

**Biological Source:** Constit. of *Hedera helix*, *Fatsia japonica*, *Astrantia major*, *Akebia quinata* and others

**Physical Description:** Needles

**Melting Point:** Mp 222-225° (dec.)

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +11 (c, 0.5 in MeOH)

>> **Derivative:** 3-*O*-[ $\alpha$ -L-Rhamnopyranosyl-(1→4)- $\alpha$ -L-arabinopyranoside]

**Synonym(s):** Mubenin B. Eleutheroside I. Raddeanin B

**CAS Registry Number:** 35790-94-4

**Molecular Formula:** C<sub>41</sub>H<sub>66</sub>O<sub>11</sub>

**Molecular Weight:** 734.966

**Accurate Mass:** 734.460515

**Percentage Composition:** C 67.00%; H 9.05%; O 23.95%

**Physical Description:** Cryst.

**Melting Point:** Mp 234-235°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>30</sup> +9.6 (c, 1.15 in MeOH)

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

**Synonym(s):** Giganteaside D

**CAS Registry Number:** 75026-25-4

**Molecular Formula:** C<sub>41</sub>H<sub>66</sub>O<sub>11</sub>

**Molecular Weight:** 734.966

**Accurate Mass:** 734.460515

**Percentage Composition:** C 67.00%; H 9.05%; O 23.95%

**Biological Source:** Constit. of *Cephalaria gigantea*

**Physical Description:** Cryst.

**Melting Point:** Mp 248-252°

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

**Synonym(s):** Songoroside C

**CAS Registry Number:** 61286-95-1

**Molecular Formula:** C<sub>41</sub>H<sub>66</sub>O<sub>11</sub>

**Molecular Weight:** 734.966

**Accurate Mass:** 734.460515

**Percentage Composition:** C 67.00%; H 9.05%; O 23.95%

**Biological Source:** Isol. from *Scabiosa songorica*

**Physical Description:** Cryst.

**Melting Point:** Mp 218-220°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> +9 (c, 1.4 in MeOH)

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

**Synonym(s):** Putranoside A

**CAS Registry Number:** 51161-56-9

**Molecular Formula:** C<sub>42</sub>H<sub>66</sub>O<sub>13</sub>

**Molecular Weight:** 778.976

**Accurate Mass:** 778.450345

**Percentage Composition:** C 64.76%; H 8.54%; O 26.70%

**Biological Source:** Isol. from *Swartzia simplex* and *Putranjiva roxburghii*

**Melting Point:** Mp 260-275 dec.°

>> **Derivative:** 3-*O*-[ $\alpha$ -L-Rhamnopyranosyl-(1→3)-6-*O*-methyl- $\beta$ -D-glucuronopyranoside]

**CAS Registry Number:** 178631-23-7