



Biological Source: Constit. of *Polygonatum stenophyllum*

>>**Derivative:** 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside]

Synonym(s): Polygonatoside C2

CAS Registry Number: 65607-37-6

Biological Source: From *Polygonatum stenophyllum*

Other Data: Polygonatoside B and Poygonatoside D have also been isol. from *P.stenophyllum* and are prob. further glycosides of Pennogenin. Polygonatoside D gives B and C on enzymic hydrol.

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

Molecular Formula: C₄₅H₇₂O₁₈

Molecular Weight: 901.053

Accurate Mass: 900.47187

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Biological Source: Constit. of *Triteleia lactea*

Physical Description: Amorph. powder

Optical Rotation: [α]_D²⁶ -90 (c, 0.1 in MeOH)

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

CAS Registry Number: 55916-51-3

Molecular Formula: C₃₉H₆₂O₁₃

Molecular Weight: 738.911

Accurate Mass: 738.419045

Percentage Composition: C 63.39%; H 8.46%; O 28.15%

Biological Source: Constit. of *Trillium kamtschaticum*

Physical Description: Needles + 2H₂O (MeOH)

Melting Point: Mp 273-276° (dec.)

Optical Rotation: [α]_D -117.8 (Py)

>>**Derivative:** 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)] [α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)]- β -D-glucopyranoside]

CAS Registry Number: 55916-52-4

Molecular Formula: C₄₅H₇₂O₁₇

Molecular Weight: 885.054

Accurate Mass: 884.476955

Percentage Composition: C 61.07%; H 8.20%; O 30.73%

Biological Source: Constit. of *Trillium kamtschaticum*

Physical Description: Needles + 1H₂O (MeOH)

Melting Point: Mp 297-299° (dec.)

Optical Rotation: [α]_D -126.7 (c, 0.9 in Py)

>>**Derivative:** 3-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 4)]- α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)] [α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]- β -D-glucopyranoside]

CAS Registry Number: 55916-45-5

Molecular Formula: C₅₁H₈₂O₂₁

Molecular Weight: 1031.196

Accurate Mass: 1030.534865

Percentage Composition: C 59.40%; H 8.01%; O 32.58%

Biological Source: Constit. of *Heloniopsis orientalis* and *Trillium kamtschaticum*

Physical Description: Needles + 3H₂O (MeOH)

Melting Point: Mp 224-228° (dec.)

Optical Rotation: [α]_D -136 (c, 0.6 in Py)

References:

- Jones, R.N. *et al.*, *J.A.C.S.*, 1953, **75**, 158, (*ir*)
Nohara, T. *et al.*, *Chem. Pharm. Bull.*, 1974, **22**, 1772; 1975, **23**, 872, (*isol, struct*)
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Mahato, S.B. *et al.*, *Phytochemistry*, 1981, **20**, 1943, (*Floribundasaponins*)
Strigina, L.I., *Khim. Prir. Soedin.*, 1982, **18**, 474; *Chem. Nat. Compd. (Engl. Transl.)*, 1982, **18**, 440, (*cmr*)
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