



fucopyranosyl] ester

Synonym(s): Polygalasaponin XLVI

CAS Registry Number: 202527-41-1

Molecular Formula: C₇₈H₁₁₆O₃₈

Molecular Weight: 1661.752

Accurate Mass: 1660.71447

Percentage Composition: C 56.38%; H 7.04%; O 36.59%

Biological Source: Constit. of *Polygala glomerata*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_{\text{D}}^{25} -13.5$ (c, 0.56 in MeOH)

UV: [neutral] λ_{max} 231 (log ϵ 4.12); 297 (log ϵ 4.05); 321 (log ϵ 4.12) (MeOH)

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[β -D-apiofuranosyl-(1 $\rightarrow$ 3)]-[β -D-galactopyranosyl-(1 $\rightarrow$ 4)]- β -D-xylopyranosyl-(1 $\rightarrow$ 4)]- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)]-[4-methoxycinnamoyl-($\rightarrow$ 4)]- β -D-fucopyranosyl] ester

Synonym(s): Onjisaponin A

CAS Registry Number: 82410-33-1

Molecular Formula: C₈₀H₁₂₀O₃₉

Molecular Weight: 1705.805

Accurate Mass: 1704.740685

Percentage Composition: C 56.33%; H 7.09%; O 36.58%

Biological Source: Isol. from *Polygala tenuifolia*

Physical Description: Powder (EtOH)

Melting Point: Mp 253-254° (dec.)

Optical Rotation: $[\alpha]_{\text{D}}^{17} -18.4$ (c, 1.24 in MeOH)

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[α -L-arabinopyranosyl-(1 $\rightarrow$ 3)]- β -D-xylopyranosyl-(1 $\rightarrow$ 4)]-[β -D-apiofuranosyl-(1 $\rightarrow$ 3)]- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)]-[4-methoxycinnamoyl-($\rightarrow$ 4)]- β -D-fucopyranosyl] ester

Synonym(s): Polygalasaponin XXXII

CAS Registry Number: 176182-04-0

Molecular Formula: C₇₉H₁₁₈O₃₈

Molecular Weight: 1675.778

Accurate Mass: 1674.73012

Percentage Composition: C 56.62%; H 7.10%; O 36.28%

Biological Source: Constit. of *Polygala japonica*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_{\text{D}}^{26} -6.6$ (c, 0.48 in MeOH)

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[β -D-galactopyranosyl-(1 $\rightarrow$ 4)]-[α -L-arabinopyranosyl-(1 $\rightarrow$ 3)]- β -D-xylopyranosyl-(1 $\rightarrow$ 4)]-[β -D-apiofuranosyl-(1 $\rightarrow$ 3)]- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]- β -D-fucopyranosyl] ester

Synonym(s): Arillatanoside D

CAS Registry Number: 260791-78-4

Molecular Formula: C₆₉H₁₁₀O₃₇

Molecular Weight: 1531.606

Accurate Mass: 1530.672605

Percentage Composition: C 54.11%; H 7.24%; O 38.65%

Biological Source: Constit. of *Polygala arillata*

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[β -D-galactopyranosyl-(1 $\rightarrow$ 4)]- β -D-xylopyranosyl-(1 $\rightarrow$ 4)]-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)]- α -L-rhamnopyranosyl-(1 $\rightarrow$ 2)]-[α -L-rhamnopyranosyl-(1 $\rightarrow$ 3)]-[4-methoxycinnamoyl-($\rightarrow$ 4)]- β -D-fucopyranosyl] ester

Synonym(s): Senegin IV. Sinegin 4

CAS Registry Number: 51005-46-0

Molecular Formula: C₈₁H₁₂₂O₃₉

Molecular Weight: 1719.831

Accurate Mass: 1718.756335

Percentage Composition: C 56.57%; H 7.15%; O 36.28%

Biological Source: Isol. from *Polygala senega*

Melting Point: Mp 249-250 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -20.2$ (c, 2 in MeOH)