



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: [α]_D²⁵ −13.5 (c, 0.56 in MeOH)

UV: [neutral] $\lambda_{\max}$ 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→3)-[β -D-galactopyranosyl-(1→4)- β -D-xylopyranosyl-(1→4)]- α -L-rhamnopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-[4-methoxycinnamoyl-(→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: [α]_D¹⁷ −18.4 (c, 1.24 in MeOH)

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[α -L-arabinopyranosyl-(1→3)- β -D-xylopyranosyl-(1→4)-[β -D-apiofuranosyl-(1→3)]- α -L-rhamnopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-[4-methoxycinnamoyl-(→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: [α]_D²⁶ −6.6 (c, 0.48 in MeOH)

>>**Derivative:** 3-*O*- β -D-Glucopyranoside, 28-*O*-[β -D-galactopyranosyl-(1→4)-[α -L-arabinopyranosyl-(1→3)]- β -D-xylopyranosyl-(1→4)-[β -D-apiofuranosyl-(1→3)]- α -L-rhamnopyranosyl-(1→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→4)- β -D-xylopyranosyl-(1→4)-[α -L-rhamnopyranosyl-(1→3)]- α -L-rhamnopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→3)]-[4-methoxycinnamoyl-(→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: [α]_D²⁰ −20.2 (c, 2 in MeOH)