



CAS Registry Number: 107912-97-0

Molecular Formula: C₂₂H₃₀O₁₄

Molecular Weight: 518.471

Accurate Mass: 518.16356

Percentage Composition: C 50.97%; H 5.83%; O 43.20%

Biological Source: Constit. of the roots of *Polygala sibirica*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{23} -6$ (c, 2.3 in MeOH)

UV: [neutral] $\lambda_{\max}$ 217 (sh) (log ϵ 3.89); 232 (sh) (log ϵ 3.79); 297 (sh) (log ϵ 3.75); 326 (log ϵ 3.91) (MeOH)

>>**Derivative:** 3'-*O*-(4-Hydroxy-3-methoxycinnamoyl), 1'-Ac

Synonym(s): 1'-Acetyl-3'-feruloylsucrose

CAS Registry Number: 98941-78-7

Molecular Formula: C₂₄H₃₂O₁₅

Molecular Weight: 560.508

Accurate Mass: 560.174125

Percentage Composition: C 51.43%; H 5.75%; O 42.82%

Biological Source: Constit. of *Polygala chamaebuxus*

Physical Description: Amorph. powder + 1H₂O

Melting Point: Mp 97-103°

UV: [neutral] $\lambda_{\max}$ 219 (ϵ 14200); 236 (ϵ 13000); 327 (ϵ 22300) (MeOH)

>>**Derivative:** 3'-*O*-(4-Hydroxy-3-methoxy-*E*-cinnamoyl), 4-*O*-benzoyl

Synonym(s): Reinirose B

CAS Registry Number: 162478-52-6

Molecular Formula: C₂₉H₃₄O₁₅

Molecular Weight: 622.579

Accurate Mass: 622.189775

Percentage Composition: C 55.95%; H 5.50%; O 38.55%

Biological Source: Constit. of the roots of *Polygala reineii*

Physical Description: Amorph. powder + 2H₂O

Optical Rotation: $[\alpha]_D^{20} -4.8$ (c, 0.52 in MeOH)

>>**Derivative:** 3'-*O*-(4-Hydroxy-3-methoxycinnamoyl), 6-*O*-benzoyl

Synonym(s): Reinirose C

CAS Registry Number: 162478-53-7

Molecular Formula: C₂₉H₃₄O₁₅

Molecular Weight: 622.579

Accurate Mass: 622.189775

Percentage Composition: C 55.95%; H 5.50%; O 38.55%

Biological Source: Constit. of the roots of *Polygala reinii*

Physical Description: Amorph. powder + 2H₂O

Optical Rotation: $[\alpha]_D^{20} -29.3$ (c, 0.87 in MeOH)

>>**Derivative:** 3'-*O*-(4-Hydroxy-3-methoxycinnamoyl), 6-*O*-(4-hydroxy-3,5-dimethoxycinnamoyl)

Synonym(s): 3'-*O*-Feruloyl-6-*O*-sinapoylsucrose

CAS Registry Number: 154287-47-5

Molecular Formula: C₃₃H₄₀O₁₈

Molecular Weight: 724.668

Accurate Mass: 724.22147

Percentage Composition: C 54.70%; H 5.56%; O 39.74%

Biological Source: Constit. of the roots of *Polygala reinii* and *Polygala tenuifolia*