



CAS Registry Number: 77690-93-8

Molecular Formula: C₃₇H₃₈O₁₇

Molecular Weight: 754.697

Accurate Mass: 754.210905

Percentage Composition: C 58.89%; H 5.07%; O 36.04%

Biological Source: Isol. from *Zizyphus jujuba*

>>**Derivative:** 2"-O-[4-Hydroxy-3-methoxycinnamoyl-(→6)-β-D-glucopyranosyl]

Synonym(s): Spinosin B

CAS Registry Number: 77690-92-7

Molecular Formula: C₃₈H₄₀O₁₈

Molecular Weight: 784.723

Accurate Mass: 784.22147

Percentage Composition: C 58.16%; H 5.14%; O 36.70%

Biological Source: Isol. from *Zizyphus jujuba*

Physical Description: Pale yellow powder + 2H₂O (MeOH)

Melting Point: Mp 194-197°

Optical Rotation: [α]_D²⁰ -45.2 (c, 0.38 in MeOH)

>>**Derivative:** 2"-O-[4-Hydroxy-3,5-dimethoxycinnamoyl-(→6)-β-D-glucopyranosyl]

Synonym(s): Spinosin A

CAS Registry Number: 77690-91-6

Molecular Formula: C₃₉H₄₂O₁₉

Molecular Weight: 814.749

Accurate Mass: 814.232035

Percentage Composition: C 57.49%; H 5.20%; O 37.31%

Biological Source: Isol. from *Zizyphus jujuba*

Physical Description: Pale yellow powder + 2H₂O (MeOH)

Melting Point: Mp 198-204°

Optical Rotation: [α]_D²⁰ -40.5 (c, 0.2 in MeOH)

>>**Derivative:** 4"-O-β-D-Glucopyranosyl

Synonym(s): Zivulgarin. Swertisin 4"-glucoside

CAS Registry Number: 108657-24-5

Molecular Formula: C₂₈H₃₂O₁₅

Molecular Weight: 608.552

Accurate Mass: 608.174125

Percentage Composition: C 55.26%; H 5.30%; O 39.44%

Biological Source: Isol. from *Zizyphus spinosus*

>>**Derivative:** 2"-O-α-L-Rhamnopyranosyl

Synonym(s): 2"-O-Rhamnosylswertisin

CAS Registry Number: 83889-78-5

Molecular Formula: C₂₈H₃₂O₁₄

Molecular Weight: 592.552

Accurate Mass: 592.17921

Percentage Composition: C 56.76%; H 5.44%; O 37.80%

Biological Source: Isol. from *Swertia ramosa*