



>>Derivative: 4-*O*-β-D-Glucopyranoside

CAS Registry Number: 129102-89-2

Molecular Formula: C₂₆H₃₆O₁₁

Molecular Weight: 524.564

Accurate Mass: 524.225765

Percentage Composition: C 59.53%; H 6.92%; O 33.55%

Biological Source: Isol. from *Antidesma membranaceum* and *Urtica dioica*

>>Derivative: 9-*O*-β-D-Glucopyranoside

CAS Registry Number: 63320-67-2

Molecular Formula: C₂₆H₃₆O₁₁

Molecular Weight: 524.564

Accurate Mass: 524.225765

Percentage Composition: C 59.53%; H 6.92%; O 33.55%

Biological Source: Constit. of *Berchemia racemosa*, *Picea abies*, *Pinus massoniana*, *Pinus sylvestris* and *Urtica dioica*

Physical Description: Amorph. powder

Optical Rotation: [α]_D −22.9 (c, 0.5 in EtOH)

UV: [neutral] λ_{max} 223 (sh) (log ε 4.26); 282 (log ε 3.88) (EtOH)

>>Derivative: 9,9'-Di-*O*-β-D-glucopyranoside

CAS Registry Number: 158932-33-3

Molecular Formula: C₃₂H₄₆O₁₆

Molecular Weight: 686.706

Accurate Mass: 686.27859

Percentage Composition: C 55.97%; H 6.75%; O 37.28%

Biological Source: Constit. of *Linum usitatissimum*

Biological Use/Importance: Precursor of the mammalian lignan Enterolactone [CMB83-F](#)

>>Derivative: Tetra-Ac

CAS Registry Number: 41025-80-3

Physical Description: Viscous oil

Optical Rotation: [α]_D²⁵ −8 (c, 1.0 in CHCl₃)

>>Derivative: 9,9'-Bis-*O*-(4-hydroxy-3-methoxycinnamoyl)(*E,E*-)

Synonym(s): 9,9'-Di-*O*-feruloylsecoisolariciresinol. Secoisolariciresinol 9,9'-diferulate

CAS Registry Number: 56973-66-1

Molecular Formula: C₄₀H₄₂O₁₂

Molecular Weight: 714.765

Accurate Mass: 714.26763

Percentage Composition: C 67.22%; H 5.92%; O 26.86%

Biological Source: Constit. of *Betula ermanii* and *Alnus japonica* (Betulaceae)

Physical Description: Pale yellow powder or needles (EtOAc)

Melting Point: Mp 204-205°

Optical Rotation: [α]_D −41.2 (c, 0.7 in MeOH). [α]_D¹⁶ −52.5 (c, 0.6 in Py)

UV: [neutral] λ_{max} 217 (ε 33880); 230 (ε 28840); 289 (ε 21380); 300 (ε 20420); 326 (ε 27540) (MeOH)

Other Data: Mp and opt. rotn. in Py refer to the *Alnus* isolate

>>Derivative: *O*³-De-Me

Synonym(s): 3-De-*O*-methylsecoisolariciresinol

CAS Registry Number: 151453-70-2

Molecular Formula: C₁₉H₂₄O₆

Molecular Weight: 348.395

Accurate Mass: 348.15729

Percentage Composition: C 65.50%; H 6.94%; O 27.55%

Biological Source: Constit. of the needles of *Taxus baccata*

Physical Description: Cryst. (CHCl₃/MeOH)

Melting Point: Mp 125-126°

Optical Rotation: [α]