



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

Synonym(s): Resveratrolsides

CAS Registry Number: 38963-95-0

Type of Compound Code(s): WI2700 VG4000

Molecular Formula: C₂₀H₂₂O₈

Molecular Weight: 390.389

Accurate Mass: 390.13147

Percentage Composition: C 61.53%; H 5.68%; O 32.79%

Biological Source: Constit. of *Rhizoma rhei* and *Pinus sibirica*

Melting Point: Mp 235-238°

Optical Rotation: $[\alpha]_D^{20} -72$ (c, 0.125 in EtOH)

>>Derivative: 4'-O-[3,4,5-Trihydroxybenzoyl-(→2)-β-D-glucopyranoside]

Synonym(s): Resveratrol 4'-(2-galloylglucoside)

CAS Registry Number: 105304-51-6

Type of Compound Code(s): VM6000 VG4000 WI2700

Molecular Formula: C₂₇H₂₆O₁₂

Molecular Weight: 542.495

Accurate Mass: 542.14243

Percentage Composition: C 59.78%; H 4.83%; O 35.39%

Biological Source: Isol. from commercial rhubarbs (*Rhizoma* spp.)

Physical Description: Amorph. powder + 1H₂O

Optical Rotation: $[\alpha]_D^{27} +25.2$ (c, 0.69 in Me₂CO)

>>Derivative: 4'-O-[3,4,5-Trihydroxybenzoyl-(→6)-β-D-glucopyranoside]

Synonym(s): Resveratrol 4'-(6-galloylglucoside)

CAS Registry Number: 64898-03-9

Type of Compound Code(s): WI2700 VG4000 VM6000

Molecular Formula: C₂₇H₂₆O₁₂

Molecular Weight: 542.495

Accurate Mass: 542.14243

Percentage Composition: C 59.78%; H 4.83%; O 35.39%

Biological Source: Isol from coml. Japanese rhubarbs (*Rhizoma* spp.)

Physical Description: Pale brown needles + ½H₂O (CHCl₃/MeOH)

Melting Point: Mp 258°

Optical Rotation: $[\alpha]_D^{20} -86$ (c, 1.0 in MeOH)

>>Derivative: Tri-Ac

Synonym(s): Triacetylresveratrol. Resveratrol triacetate

CAS Registry Number: 42206-94-0

Type of Compound Code(s): VG4000

Molecular Formula: C₂₀H₁₈O₆

Molecular Weight: 354.359

Accurate Mass: 354.11034

Percentage Composition: C 67.79%; H 5.12%; O 27.09%

Biological Source: Isol. from the sponge *Kirkpatrickia variolosa*

Physical Description: Cryst. (CHCl₃/MeOH)

Melting Point: Mp 130° (118.5-119.5°)

UV: [neutral] λ_{max} 300 (ε 25120); 312 (ε 24550); 326 (ε 14450) (EtOH) [neutral] λ_{max} 300 (ε 25118); 312 (ε 24547); 326 (ε 14455) (MeOH) (Berdy)

>>Derivative: 3-Me ether

Synonym(s): 3-[(4-Hydroxyphenyl)ethenyl]-5-methoxyphenol. 1-(4-Hydroxyphenyl)-2-(3-hydroxy-5-methoxyphenyl)ethylene. 3,4'-Dihydroxy-5-methoxystilbene. Pinostilbene

CAS Registry Number: 42438-89-1

Type of Compound Code(s): VG4000

Molecular Formula: C₁₅H₁₄O₃

Molecular Weight: 242.274

Accurate Mass: 242.094295

Percentage Composition: C 74.36%; H 5.82%; O 19.81%

Biological Source: Constit. of the bark of *Pinus sibirica*

Melting Point: Mp 117-118°