



>>Derivative: 3''-O-(4-Hydroxycinnamoyl), 6''-O-(4-hydroxy-3-methoxycinnamoyl)

CAS Registry Number: 69200-63-1

Molecular Formula: C₄₀H₃₄O₁₆

Molecular Weight: 770.699

Accurate Mass: 770.18469

Percentage Composition: C 62.34%; H 4.45%; O 33.22%

Biological Source: Isol. from *Picea obovata*

>>Derivative: 3''-O-(4-Hydroxy-Z-cinnamoyl), 6''-O-(4-hydroxy-3-methoxy-E-cinnamoyl)

Synonym(s): Stenopalustroside B

Molecular Formula: C₄₀H₃₄O₁₆

Molecular Weight: 770.699

Accurate Mass: 770.18469

Percentage Composition: C 62.34%; H 4.45%; O 33.22%

Biological Source: Constit. of *Stenochlaena palustris*

Physical Description: Amorph. yellow powder

Optical Rotation: $[\alpha]_D^{20}$ -18 (c, 0.2 in MeOH)

UV: [neutral] $\lambda_{\max}$ 268 (); 314 () (MeOH)

>>Derivative: 4''-O-(Z-4-Hydroxycinnamoyl), 6''-O-(E-4-hydroxycinnamoyl), 2'',3''-di-Ac

Synonym(s): Kaempferol 3-(2,3-diacetyl-4-*cis-p*-coumaryl-6-*trans-p*-coumaryl)glucoside)

CAS Registry Number: 137018-29-2

Molecular Formula: C₄₃H₃₆O₁₇

Molecular Weight: 824.747

Accurate Mass: 824.195255

Percentage Composition: C 62.62%; H 4.40%; O 32.98%

Biological Source: Isol. from *Quercus suber*

>>Derivative: 6''-O-(4-Hydroxycinnamoyl)

Synonym(s): Tilioside

CAS Registry Number: 20316-62-5

Molecular Formula: C₃₀H₂₆O₁₃

Molecular Weight: 594.528

Accurate Mass: 594.137345

Percentage Composition: C 60.61%; H 4.41%; O 34.98%

Biological Source: Isol. from *Tilia* spp. and other plant spp.

Physical Description: Pale yellow needles (MeOH aq.)

Melting Point: Mp 269-271° (267-269°)

Optical Rotation: $[\alpha]_D^{24}$ +69.9 (c, 0.1 in MeOH)

Other Data: This struct. was formerly assigned to Tribuloside isol. from *Tribularia* spp.

>>Derivative: 6''-O-(4-Hydroxycinnamoyl), 4'-O-β-D-glucopyranoside

CAS Registry Number: 87339-51-3

Molecular Formula: C₃₆H₃₆O₁₈

Molecular Weight: 756.67

Accurate Mass: 756.19017

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Isol. from *Crambe tatarica*