



Biological Source: Isol. from *Pogostemon cablin*, *Clematis terniflora* and *Echinops echinatus*

Physical Description: Cryst.

Melting Point: Mp 261-263°

Other Data: Identity of samples not certain. Mp. refers to Echinacin

>> **Derivative:** 6"-*O*-(4-Hydroxy-*E*-cinnamoyl), 3"-Ac

Synonym(s): 3"-Acetyl-6"-coumaroylcosmosiin

CAS Registry Number: 181425-77-4

Molecular Formula: C₃₂H₂₈O₁₃

Molecular Weight: 620.565

Accurate Mass: 620.152995

Percentage Composition: C 61.94%; H 4.55%; O 33.52%

Biological Source: Constit. of *Blepharis ciliaris*

Melting Point: Mp 223-225°

UV: [neutral] λ_{max} 269 (); 317 (); 335 (sh) () (MeOH)

>> **Derivative:** 3",6"-Bis-*O*-(4-hydroxycinnamoyl)

CAS Registry Number: 83529-71-9

Molecular Formula: C₃₉H₃₂O₁₄

Molecular Weight: 724.673

Accurate Mass: 724.17921

Percentage Composition: C 64.64%; H 4.45%; O 30.91%

Biological Source: Isol. from *Anisomeles ovata*

>> **Derivative:** 4",6"-Bis-*O*-(4-hydroxycinnamoyl)

Synonym(s): Cernoside

CAS Registry Number: 87562-09-2

Molecular Formula: C₃₉H₃₂O₁₄

Molecular Weight: 724.673

Accurate Mass: 724.17921

Percentage Composition: C 64.64%; H 4.45%; O 30.91%

Biological Source: Isol. from *Anisomeles ovata* and *Lycopodium cernuum*

Melting Point: Mp 225-230 dec.°

>> **Derivative:** 4'-*O*-(3,4-Dihydroxycinnamoyl)

Synonym(s): Piperitoside

CAS Registry Number: 20196-92-3

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 *Mentha piperita*

Melting Point: Mp 251-253°

Optical Rotation: [α]_D¹⁸ -63

>> **Derivative:** 3"-*O*-(3,4-Dihydroxycinnamoyl)

Synonym(s): 3"-*O*-Caffeoylcosmosiin

CAS Registry Number: 79366-62-4

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 leaves of *Perilla frutescens*

Physical Description: No phys. props. reported