



Optical Rotation: $[\alpha]_{\text{D}}^{23} -24.8$ (c, 1.07 in MeOH)

>>Derivative: 1-*O*-[6-*O*-Acetyl- β -D-glucopyranosyl-($\rightarrow$ 3)-[3,4-dihydroxy-*E*-cinnamoyl-($\rightarrow$ 4)]- β -D-glucopyranoside]

Synonym(s): Hemiphroside B

CAS Registry Number: 165338-28-3

Type of Compound Code(s): VE9200 VG0060

Molecular Formula: C₃₁H₃₈O₁₇

Molecular Weight: 682.631

Accurate Mass: 682.210905

Percentage Composition: C 54.54%; H 5.61%; O 39.84%

Biological Source: Constit. of *Hemiphragma heterophyllum*

>>Derivative: 1-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 4)-3,4-dihydroxy-*E*-cinnamoyl-($\rightarrow$ 3)- β -D-glucopyranoside]

Synonym(s): Chiritoside A

CAS Registry Number: 159122-04-0

Type of Compound Code(s): VE9200 VG0060

Molecular Formula: C₂₉H₃₆O₁₆

Molecular Weight: 640.594

Accurate Mass: 640.20034

Percentage Composition: C 54.37%; H 5.66%; O 39.96%

Biological Source: Constit. of *Cassinopsis sinensis*

Optical Rotation: $[\alpha]_{\text{D}} -32$ (c, 0.6 in MeOH)

>>Derivative: 1-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 4)-3,4-dihydroxycinnamoyl-($\rightarrow$ 4)- β -D-glucopyranoside]

Synonym(s): Chiritoside B

CAS Registry Number: 159122-05-1

Type of Compound Code(s): VE9200 VG0060

Molecular Formula: C₂₉H₃₆O₁₆

Molecular Weight: 640.594

Accurate Mass: 640.20034

Percentage Composition: C 54.37%; H 5.66%; O 39.96%

Biological Source: Constit. of *Cassinopsis sinensis*

Optical Rotation: $[\alpha]_{\text{D}} -64$ (c, 0.5 in MeOH)

>>Derivative: 1-*O*-[β -D-Glucopyranosyl-($\rightarrow$ 4)-3,4-dihydroxy-*E*-cinnamoyl-($\rightarrow$ 6)- β -D-glucopyranoside]

Synonym(s): Chiritoside C

CAS Registry Number: 159122-06-2

Type of Compound Code(s): VE9200 VG0060

Molecular Formula: C₂₉H₃₆O₁₆

Molecular Weight: 640.594

Accurate Mass: 640.20034

Percentage Composition: C 54.37%; H 5.66%; O 39.96%

Biological Source: Constit. of *Cassinopsis sinensis*

Optical Rotation: $[\alpha]_{\text{D}} -70$ (c, 0.4 in MeOH)

>>Derivative: 1-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside]

Synonym(s): 2-(3,4-Dihydroxyphenyl)ethyl [β -D-glucopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside]. 3,4-Dihydroxyphenethyl β -gentiobioside. **Ferruginoside B**

CAS Registry Number: 249295-71-4

Type of Compound Code(s): VE9200

Molecular Formula: C₂₀H₃₀O₁₃

Molecular Weight: 478.449

Accurate Mass: 478.168645

Percentage Composition: C 50.21%; H 6.32%; O 43.47%

Biological Source: Constit. of *Digitalis ferruginea* ssp. *ferruginea*

Physical Description: Amorph. powder

UV: [neutral] λ_{max} 226 (); 284 (); 331 () (MeOH)