



Accurate Mass: 462.116215
Percentage Composition: C 57.14%; H 4.80%; O 38.06%
Biological Source: Constit. of *Cirsium oligophyllum*
Physical Description: Pale yellow powder
UV: [neutral] $\lambda_{\max}$ 275 (); 327 () (MeOH)

>>**Derivative:** 7-*O*- β -D-Glucopyranoside
Synonym(s): Homoplataginin. Hispiduloside

CAS Registry Number: 17680-84-1

Molecular Formula: C₂₂H₂₂O₁₁
Molecular Weight: 462.409
Accurate Mass: 462.116215
Percentage Composition: C 57.14%; H 4.80%; O 38.06%
Biological Source: Isol. from *Plantago* spp., *Salvia* spp., *Scutellaria* sp. and other plant spp.
Physical Description: Yellow needles (EtOH)
Melting Point: Mp 241-242 dec.°

>>**Derivative:** 7-*O*- β -D-Glucuronopyranoside
Synonym(s): Hispidulin 7-glucuronide

CAS Registry Number: 31105-76-7

Molecular Formula: C₂₂H₂₀O₁₂
Molecular Weight: 476.393
Accurate Mass: 476.09548
Percentage Composition: C 55.47%; H 4.23%; O 40.30%
Biological Source: Isol. from *Pedaliium murex* and *Scutellaria* spp.
Melting Point: Mp 220-222°

>>**Derivative:** 7-*O*-[β -D-Xylopyranosyl-(1 $\rightarrow$ 2)- β -D-xylopyranoside]
Synonym(s): Mahuangchiside

CAS Registry Number: 261361-51-7

Molecular Formula: C₂₆H₂₈O₁₄
Molecular Weight: 564.499
Accurate Mass: 564.14791
Percentage Composition: C 55.32%; H 5.00%; O 39.68%
Biological Source: Constit. of the roots of *Chirita fimbrisepala*. Component of Ma Huang Chi
Physical Description: Yellow cryst. (MeOH)
Melting Point: Mp 212-213°
UV: [neutral] $\lambda_{\max}$ 273 (log ϵ 3.24); 326 (log ϵ 3.36) (no solvent reported)

>>**Derivative:** 4'-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]
Synonym(s): Hispidulin 4'-neohesperidoside

CAS Registry Number: 152950-72-6

Molecular Formula: C₂₈H₃₂O₁₅
Molecular Weight: 608.552
Accurate Mass: 608.174125
Percentage Composition: C 55.26%; H 5.30%; O 39.44%
Biological Source: Constit. of the roots of *Cassia marginata*

>>**Derivative:** 7-*O*-[α -L-Rhamnopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]
Synonym(s): Hispidulin 7-neohesperidoside

CAS Registry Number: 156186-00-4

Molecular Formula: C₂₈H₃₂O₁₅
Molecular Weight: 608.552
Accurate Mass: 608.174125
Percentage Composition: C 55.26%; H 5.30%; O 39.44%
Biological Source: Constit. of the flowers of *Ipomoea purpurea*. Also isol. from *Cirsium japonicum* and *Cirsium rhinoceros*
Physical Description: Yellow needles (EtOAc/petrol)
Melting Point: Mp 220-222° (192-196°)