



Molecular Formula: C₁₅H₂₂O₁₁
Molecular Weight: 378.332
Accurate Mass: 378.116215
Percentage Composition: C 47.62%; H 5.86%; O 46.52%
Biological Source: Constit. of *Macfadyena cinanoides*
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D^{28} -30$ (c, 2 in MeOH)

>> **Derivative:** 10-Hydroxy, 5-*O*-β-D-glucopyranoside
Synonym(s): Calycinoside

CAS Registry Number: 75005-96-8

Molecular Formula: C₂₁H₃₂O₁₆
Molecular Weight: 540.474
Accurate Mass: 540.16904
Percentage Composition: C 46.67%; H 5.97%; O 47.36%
Biological Source: Constit. of *Antirrhinum orontium*
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D -75$ (c, 0.8 in MeOH)

>> **Derivative:** 5-Epimer
Synonym(s): Procumbide

CAS Registry Number: 20486-27-5

Molecular Formula: C₁₅H₂₂O₁₀
Molecular Weight: 362.333
Accurate Mass: 362.1213
Percentage Composition: C 49.72%; H 6.12%; O 44.16%
Biological Source: Constit. of root of *Harpagophytum procumbens*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 210-211°
Optical Rotation: $[\alpha]_D^{20} -80.9$ (c, 2.8 in EtOH)

>> **Derivative:** 5-Epimer, penta-Ac

CAS Registry Number: 35993-19-2
Molecular Formula: C₂₅H₃₂O₁₅
Molecular Weight: 572.519
Accurate Mass: 572.174125
Percentage Composition: C 52.45%; H 5.63%; O 41.92%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 136-137°
Optical Rotation: $[\alpha]_D^{20} -79$ (c, 0.7 in CHCl₃)

>> **Derivative:** 5-Epimer, 6'-*O*-(4-hydroxycinnamoyl)
Synonym(s): 6'-*O*-*p*-Coumaroylprocumbide

CAS Registry Number: 87686-76-8

Molecular Formula: C₂₄H₂₈O₁₂
Molecular Weight: 508.478
Accurate Mass: 508.15808
Percentage Composition: C 56.69%; H 5.55%; O 37.76%
Biological Source: Constit. of roots of *Harpagophytum procumbens*
Physical Description: Hygroscopic powder
Optical Rotation: $[\alpha]_D^{22} -58.2$ (c, 0.78 in MeOH)