



Molecular Formula: C₃₂H₄₄O₈
Molecular Weight: 556.695
Accurate Mass: 556.30362
Percentage Composition: C 69.04%; H 7.97%; O 22.99%
Biological Source: Constit. of *Ecballium elaterium*, *Canoea scoparoides*, *Citrullus* and *Luffa* spp.
Biological Use/Importance: Cell adhesion inhibitor
Melting Point: Mp 234°
Optical Rotation: [α]_D²⁰ -64.3 (CHCl₃)
UV: [neutral] $\lambda_{\max}$ 233 (ϵ 11700); 234 (); 267 (ϵ 8400); 269 () (EtOH) (Berdy)
Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 2 mg/kg

>>Derivative: 25-Ac, 2-O- β -D-glucopyranoside
Synonym(s): Elaterinide. Colocynthin. Gratiotoxin

CAS Registry Number: 1398-78-3

Molecular Formula: C₃₈H₅₄O₁₃
Molecular Weight: 718.837
Accurate Mass: 718.356445
Percentage Composition: C 63.49%; H 7.57%; O 28.93%
Biological Source: Constit. of *Citrullus lanatus* and *Citrullus colocynthis*
Melting Point: Mp 148-150°
Optical Rotation: [α]_D²⁰ -63.5 (CHCl₃)
Solubility: BERDY SOL: Sol. EtOH, CHCl₃, Me₂CO; fairly sol. Et₂O, H₂O
UV: [neutral] $\lambda_{\max}$ 235 (ϵ 12900) (EtOH) (Berdy)

>>Derivative: 23,24-Dihydro
Synonym(s): 2,16,20,25-Tetrahydroxycucurbita-1,5-diene-3,11,22-trione. 16,20,25-Trihydroxycucurbit-5-ene-2,3,11,22-tetrone. **Cucurbitacin L**

CAS Registry Number: 1110-02-7

Molecular Formula: C₃₀H₄₄O₇
Molecular Weight: 516.673
Accurate Mass: 516.308705
Percentage Composition: C 69.74%; H 8.58%; O 21.68%
Biological Source: Constit. of *Citrullus ecirrhosus* and *Citrullus colocynthis*, *Gratiola officinalis* and *Bryonia dioica*
Physical Description: Cryst. + $\frac{1}{2}$ H₂O (MeOH aq.)
Melting Point: Mp 122-127°
Optical Rotation: [α]_D²⁸ -41 (EtOH)
UV: [neutral] $\lambda_{\max}$ 270 (ϵ 8050) (EtOH) (Berdy)

>>Derivative: 23,24-Dihydro, 2-O- β -D-glucopyranoside
Synonym(s): Bryoamaride

CAS Registry Number: 61105-51-9

Molecular Formula: C₃₆H₅₄O₁₂
Molecular Weight: 678.815
Accurate Mass: 678.36153
Percentage Composition: C 63.70%; H 8.02%; O 28.28%
Biological Source: Constit. of *Bryonia dioica* and *Citrullus colocynthis*
Melting Point: Mp 228-235°
Optical Rotation: [α]_D²⁰ -85.7 (c, 0.82 in EtOH)