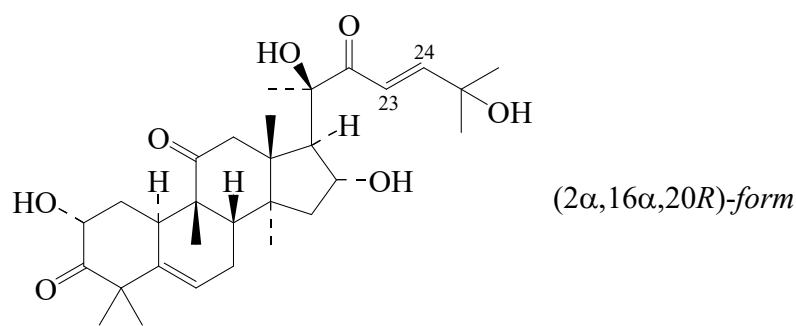




>>Entry Name: 2,16,20,25-Tetrahydroxycucurbita-5,23-diene-3,11,22-trione
ENTRY UNDER REVIEW



Molecular Formula: C₃₀H₄₄O₇
Molecular Weight: 516.673
Accurate Mass: 516.308705
Percentage Composition: C 69.74%; H 8.58%; O 21.68%
Solubility: BERDY SOL: Sol. EtOAc, Et₂O; poorly sol. H₂O, C₆H₆, bases
UV: [neutral] $\lambda_{\max}$ 232 (ϵ 9000) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 230 (ϵ 13000) (EtOH) (Berdy)

>>Variant: (2 α ,16 α ,20 R)-form

Molecular Formula: C₃₀H₄₄O₇
Molecular Weight: 516.673
Accurate Mass: 516.308705
Percentage Composition: C 69.74%; H 8.58%; O 21.68%

>>Derivative: 25-Ac
Synonym(s): 2-Epicucurbitacin B

Molecular Formula: C₃₂H₄₆O₈
Molecular Weight: 558.711
Accurate Mass: 558.31927
Percentage Composition: C 68.79%; H 8.30%; O 22.91%
Biological Source: Constit. of *Luffa echinata*
Use/Importance: Antineoplastic agent
Physical Description: Cryst. (MeOH)
Melting Point: Mp 229-231°
Optical Rotation: [α]_D +41 (CHCl₃)
Calculated Log P Data: Log P 0.32 (uncertain value) (calc)

>>Variant: (2 β ,16 α ,20 R)-form
Synonym(s): Cucurbitacin D. Elatericin A

CAS Registry Number: 3877-86-9

Molecular Formula: C₃₀H₄₄O₇
Molecular Weight: 516.673
Accurate Mass: 516.308705
Percentage Composition: C 69.74%; H 8.58%; O 21.68%
Biological Source: Isol. from plants of the Cucurbitaceae. e.g. *Phormium tenax* and *Ecballium elaterium*
Biological Use/Importance: Antihepatotoxic, antineoplastic agent. Possesses cathartic props.
Physical Description: Cryst. + ½H₂O (EtOH)
Melting Point: Mp 151-152°
Optical Rotation: [α]_D +52 (EtOH)
Hazard & Toxicity: LD₅₀ (rat, orl) 8.2 mg/kg