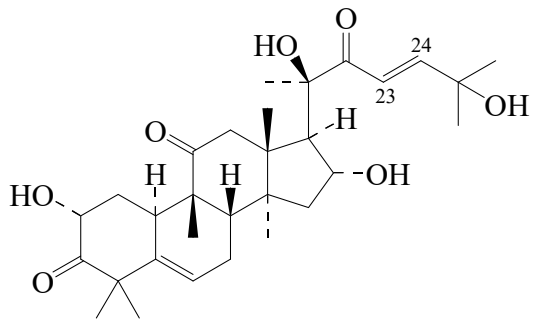
>>**Entry Name: 2,16,20,25-Tetrahydroxycucurbita-5,23-diene-3,11,22-trione**
ENTRY UNDER REVIEW



(2α,16α,20*R*)-*form*

Molecular Formula: $C_{30}H_{44}O_7$
Molecular Weight: 516.673
Accurate Mass: 516.308705
Percentage Composition: C 69.74%; H 8.58%; O 21.68%
Solubility: BERDY SOL: Sol. EtOAc, Et_2O; poorly sol. H_2O, C_6H_6, bases
UV: [neutral] λ_{max} 232 (ε 9000) (MeOH) (Berdy) [neutral] λ_{max} 230 (ε 13000) (EtOH) (Berdy)

>>**Variant:** (2α,16α,20*R*)-form
Molecular Formula: $C_{30}H_{44}O_7$
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: $C_{32}H_{46}O_8$
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: $[\alpha]_D$ +41 ($CHCl_3$)
Calculated Log P Data: Log P 0.32 (uncertain value) (calc)

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

CAS Registry Number: 3877-86-9

Molecular Formula: $C_{30}H_{44}O_7$
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. + ½H_2O (EtOH)
Melting Point: Mp 151-152°
Optical Rotation: $[\alpha]_D$ +52 (EtOH)
Hazard & Toxicity: LD_{50} (rat, orl) 8.2 mg/kg