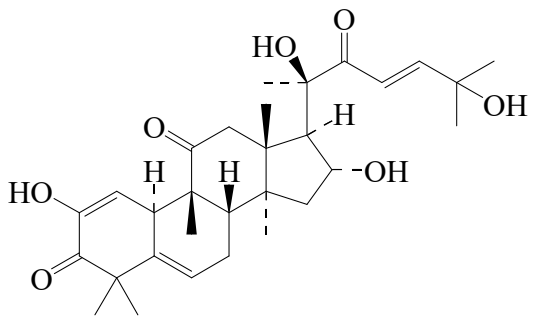
>>**Entry Name: 2,16,20,25-Tetrahydroxycucurbita-1,5,23-triene-3,11,22-trione**
Synonym(s): 16,20,25-Trihydroxycucurbita-5,23-diene-2,3,11,22-tetrone



Molecular Formula: $C_{30}H_{42}O_7$
Molecular Weight: 514.658
Accurate Mass: 514.293055
Percentage Composition: C 70.01%; H 8.23%; O 21.76%

Biological Use/Importance: Cucurbitacins possess antihepatotoxic, antineoplastic and cathartic activity
Solubility: BERDY SOL: Sol. bases, EtOAc, Et_2O; poorly sol. H_2O, hexane, C_6H_6
UV: [base] λ_{max} 234 (ε 11400); 314 (ε 6750) (NAOH) (Berdy) [neutral] λ_{max} 234 (ε 11000); 269 (ε 6850) (EtOH) (Berdy)

>>**Variant:** (16α,20*R*,23*E*)-form
Synonym(s): Cucurbitacin I. Elatericin B

CAS Registry Number: 2222-07-3

Molecular Formula: $C_{30}H_{42}O_7$
Molecular Weight: 514.658
Accurate Mass: 514.293055
Percentage Composition: C 70.01%; H 8.23%; O 21.76%

Physical Description: Cryst.
Melting Point: Mp 148-149 dec.°
Optical Rotation: $[\alpha]_D^{20}$ –58.5 (MeOH)

>>**Derivative:** 2-*O*-β-D-Glucopyranoside

CAS Registry Number: 29803-94-9

Molecular Formula: $C_{36}H_{52}O_{12}$
Molecular Weight: 676.8
Accurate Mass: 676.34588
Percentage Composition: C 63.89%; H 7.74%; O 28.37%
Biological Source: Constit. of *Citrullus lanatus*
Melting Point: Mp 241-243°
Optical Rotation: $[\alpha]_D^{20}$ –72.6 (EtOH)

>>**Derivative:** 20-Ac
Synonym(s): Datiscacin‡

CAS Registry Number: 38308-89-3

Molecular Formula: $C_{32}H_{44}O_8$
Molecular Weight: 556.695
Accurate Mass: 556.30362
Percentage Composition: C 69.04%; H 7.97%; O 22.99%
Biological Source: Constit. of *Datisca glomerata*
Biological Use/Importance: Antineoplastic agent
Melting Point: Mp 208-212°
Optical Rotation: $[\alpha]_D^{23}$ –18 (c, 0.87 in $CHCl_3$)
Calculated Log P Data: Log P 0.32 (uncertain value) (calc)
UV: [neutral] λ_{max} 231 (ε 9600); 268 (ε 5400) (EtOH) (Berdy)