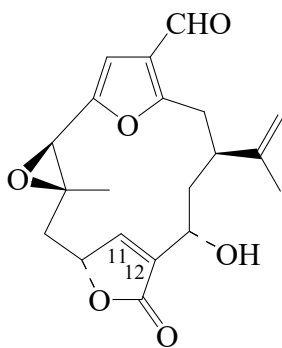




>>Entry Name: 3,6:7,8-Diepoxy-13-hydroxy-18-oxo-3,5,11,15-cembratetraen-20,10-olide



Molecular Formula: C₂₀H₂₂O₆

Molecular Weight: 358.39

Accurate Mass: 358.14164

Percentage Composition: C 67.03%; H 6.19%; O 26.79%

>>Variant: (1*S*,7*R*,8*R*,10*R*,13*S*)-form

Molecular Formula: C₂₀H₂₂O₆

Molecular Weight: 358.39

Accurate Mass: 358.14164

Percentage Composition: C 67.03%; H 6.19%; O 26.79%

>>Derivative: Ac

Synonym(s): Deepoxylophotoxin. Deoxylophotoxin. Deoxolophotoxin

CAS Registry Number: 134455-93-9

Molecular Formula: C₂₂H₂₄O₇

Molecular Weight: 400.427

Accurate Mass: 400.152205

Percentage Composition: C 65.99%; H 6.04%; O 27.97%

Biological Source: Constit. of *Lophogorgia violacea*

Other Data: Called Deoxolophotoxin or Deoxylophotoxin in the lit. but Deepoxylophotoxin is more correct

>>Derivative: 11β,12β-Epoxyde, Ac

Synonym(s): Lophotoxin

CAS Registry Number: 78697-56-0

Molecular Formula: C₂₂H₂₄O₈

Molecular Weight: 416.427

Accurate Mass: 416.14712

Percentage Composition: C 63.45%; H 5.81%; O 30.74%

Biological Source: Metab. of gorgonian corals *Lophogorgia alba*, *Lophogorgia cuspidata* and *Lophogorgia rigida*

Use/Importance: Potent neuromuscular toxin

Physical Description: Cryst. (EtOAc/2,3,3-trimethylpentane)

Melting Point: Mp 164-166°

Optical Rotation: [α]_D²⁷ +14.2 (c, 1.7 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

Hazard & Toxicity: LD₅₀ 8 mg/kg (mice s.c.) ; BERDY HAZD : LD₅₀ (mus, ipr) 8 mg/kg , LD₅₀ (mus, scu) 8.9 mg/kg

>>Derivative: 18-Carboxylic acid, 11β,12β-epoxide, 13-Ac, Me ester

Synonym(s): 13-Acetoxy-11,12-epoxypukalide

CAS Registry Number: 326595-72-6

Molecular Formula: C₂₃H₂₆O₉

Molecular Weight: 446.453

Accurate Mass: 446.157685

Percentage Composition: C 61.88%; H 5.87%; O 32.25%

Biological Source: Constit. of *Lophogorgia violacea*

References: