

Product Data Sheet

Product Name: Roridin E

Cat. No.: GC40022

Chemical Properties

Cas. No. 16891-85-3

SMILES CC1=C[C@]2([H])[C@@]3([C@]4(C)[C@@]5(OC5)[C@](C[C@H]4OC(/C=C\C=C/[C@](OCC/C(C)=C/C(OC3)=O)([H])[C@H](O)C)=O)([H])O2)CC1

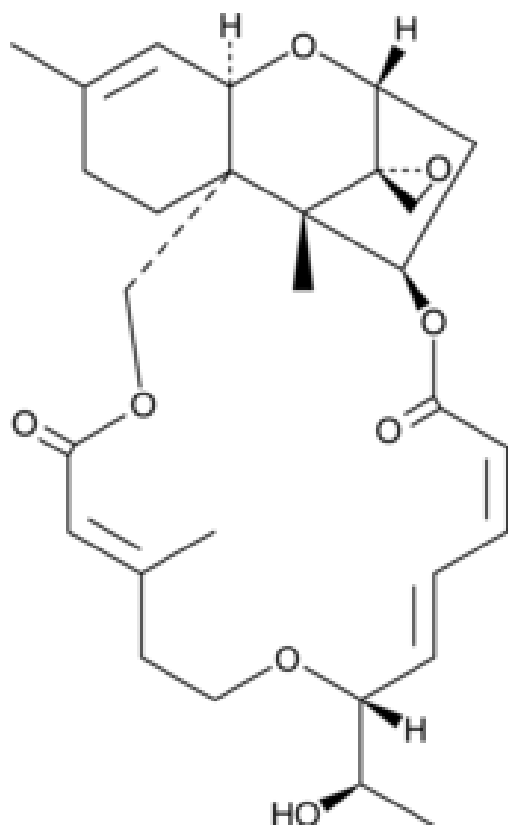
Formula C₂₉H₃₈O₈ M.Wt 514.6

Solubility Ethanol: soluble, Methanol: soluble Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Roridin E is a macrocyclic trichothecene mycotoxin that has been found in *M. verrucaria*. It inhibits the receptor tyrosine kinases FGFR3, IGF-1R, PDGFR β , and TrkB (IC₅₀s = 0.4, 0.4, 1.4, and 1 μ M, respectively). Roridin E induces cytotoxicity in multiple breast cancer cell lines (IC₅₀s = 0.02-0.05 nM) and inhibits proliferation in a panel of additional cancer cell lines (IC₅₀s = P. falciparum (EC₅₀ = 0.15 ng/ml), induces phytotoxicity in duckweed and kudzu, and is toxic to mice (LD₅₀ = 10 mg/kg, i.p.). Roridin E is also produced by the plant *B. coridifolia*, which is associated with livestock poisoning in South America.

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