

Product Data Sheet

Product Name: Deoxyelephantopin

Cat. No.: GC60129

Chemical Properties

Cas. No. 29307-03-7

SMILES C=C(C)C(O[C@@H](CC1=C2)[C@]3([H])[C@@](OC(C3=C)=O)([H])/C=C(C)/C[C@@]2([H])OC1=O)=O

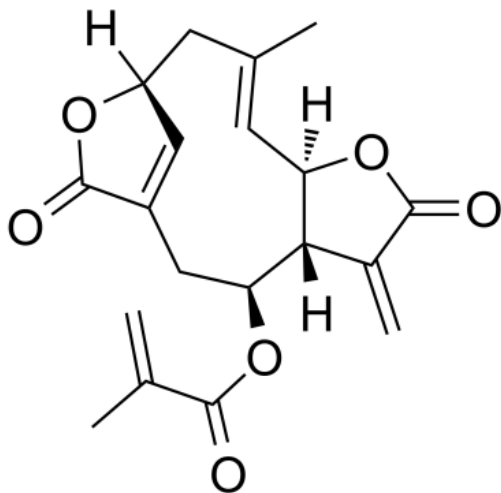
Formula $C_{19}H_{20}O_6$ M.Wt 344.36

Solubility Storage Store at 2-8°C, protect from light

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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Deoxyelephantopin, a natural bioactive sesquiterpene lactone from *Elephantopus scaber*, has shown promising anticancer effects against a broad spectrum of cancers. Deoxyelephantopin inhibits NF- κ B, MAPK, PI3K/Akt, and β -catenin signaling[1].

Deoxyelephantopin inhibits the cell growth of HCT 116 (colorectal), K562 (chronic myeloid leukemia), KB (oral), and T47D (breast) cancer cell lines with IC50s of 7.46, 4.02, 3.35, 1.86 μ g/mL, respectively[1]. Deoxyelephantopin increases the expression of p53, p-JNK, and p-p38 and decreases the expression of p-STAT3 and p-mTOR in cancer cells. Deoxyelephantopin downregulates MMP-2 and MMP-9, uPA, and uPAR mRNA levels in cancer cells[1].

[1]. Farha Arakkaveetil Kabeer, et al. Molecular Mechanisms of Anticancer Activity of Deoxyelephantopin in Cancer Cells. Integr Med Res. 2017 Jun;6(2):190-206.

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