

Deoxyelephantopin

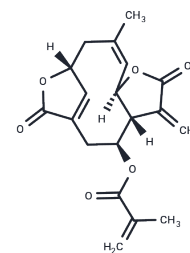
Chemical Properties

CAS No. : 29307-03-7

Formula: C₁₉H₂₀O₆

Molecular Weight: 344.36

Storage: Store at low temperature, Keep away from moisture,
Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Deoxyelephantopin has anti-inflammatory, hepatoprotective, and wound healing activities; it also has antitumor activity. Deoxyelephantopin inhibits NF- κ B, MAPK, PI3K/Akt, and β -catenin signaling
Targets(IC50)	NF- κ B
In vitro	Deoxyelephantopin was evaluated for its effects on the expression of mRNAs encoding CYP1A2, CYP2D6 and CYP3A4, and protein expression and resultant enzymatic activity. The mRNA and protein expression of cytochrome isoforms were carried out using an optimized multiplex qRT-PCR assay and Western blot analysis, respectively. Human CYP3A4 protein expression was determined using an optimized hCYP3A4-HepG2 cell-based assay and the enzymatic activity was evaluated using P450-Glo CYP3A4 assay. The molecular interaction and possible inhibition of Deoxyelephantopin of the CYP3A4 enzyme was determined in silico and further validated using substrate-specific CYP3A4 inhibition assays. Deoxyelephantopin produced no significant effect on the CYP1A2 and CYP2D6 mRNA and protein expression. However, it has a weak induction effect on CYP3A4 at the transcriptional level[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (290.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.58 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9039 mL	14.5197 mL	29.0394 mL
5 mM	0.5808 mL	2.9039 mL	5.8079 mL
10 mM	0.2904 mL	1.452 mL	2.9039 mL
50 mM	0.0581 mL	0.2904 mL	0.5808 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Evaluation of in vitro cytochrome P450 induction and inhibition activity of deoxyelephantopin, a sesquiterpene lactone from *Elephantopus scaber* L. *Food Chem Toxicol.* 2013 Oct;60:98-108.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481