

Glabrol

Chemical Properties

CAS No. : 59870-65-4

Formula: C₂₅H₂₈O₄

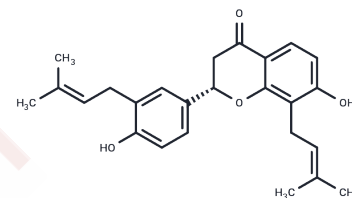
Molecular Weight: 392.49

Keep away from direct sunlight, Keep away from moisture

Storage:

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	5-Methylcytosine is a methylated nucleotide base found in eukaryotic DNA. It is an epigenetic modification formed by the action of DNA methyltransferases.
Targets(IC50)	NF-κB, NO Synthase, Acyltransferase, Cytochromes P450
In vitro	Based on the bioactivities of licorice, these compounds were screened using cell- or enzyme-based bioassay methods. A total of 11 compounds exhibited potent cytotoxic activities against three human cancer cell lines (HepG2, SW480 and MCF7), while showed little toxicity on human normal cell lines LO2 and HEK293T[1]

Solubility Information

Solubility	DMSO: 65 mg/mL (165.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.1 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	2.5478 mL	12.7392 mL	25.4784 mL
5 mM	0.5096 mL	2.5478 mL	5.0957 mL
10 mM	0.2548 mL	1.2739 mL	2.5478 mL
50 mM	0.051 mL	0.2548 mL	0.5096 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

Screening for bioactive natural products from a 67-compound library of Glycyrrhiza inflata. *Bioorg Med Chem.* 2017 Jul 15;25(14):3706-3713.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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