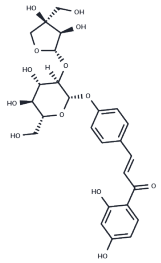
Data Sheet (Cat.No.T3860)

TargetMol

Isoliquiritin apioside

Chemical Properties



CAS No. : 120926-46-7

Formula: C26H30O13

Molecular Weight: 550.51

Storage: 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	Isoliquiritin apioside, isolated from Glycyrrhizae radix rhizome, significantly decreases PMA-induced increases in MMP9 activities and suppresses PMA-induced activation of MAPK and NF-κB. Isoliquiritin apioside auppresseses invasiveness and angiogenesis of cancer cells and endothelial cells. Isoliquiritin apioside has marked potential to combat oxidative stress-induced genotoxicity.
Targets(IC50)	MMP,NF-κB,p38 MAPK

Solubility Information

Solubility	DMSO: 33.3 mg/mL (60.49 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 (3.63 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8165 mL	9.0825 mL	18.165 mL
5 mM	0.3633 mL	1.8165 mL	3.633 mL
10 mM	0.1816 mL	0.9082 mL	1.8165 mL
50 mM	0.0363 mL	0.1816 mL	0.3633 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

Kim A1, et al. Isoliquiritin Apioside Suppresses in vitro Invasiveness and Angiogenesis of Cancer Cells and Endothelial Cells.Front Pharmacol. 2018 Dec 10;9:1455.
Huang B, Lin B, Zheng H, et al.Discovery of natural products as influenza neuraminidase inhibitors: in silico screening, in vitro validation, and molecular dynamic simulation studies.Molecular Diversity.2025: 1-17.
Kaur P , Kaur S , Kumar N , et al. Evaluation of antigenotoxic activity of isoliquiritin apioside from Glycyrrhiza glabra L.[J]. toxicology in vitro, 2009, 23(4):0-686.

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