Isoliquiritin apioside

Cat. No.: HY-N2497

CAS No.: 120926-46-7

Molecular Formula: $C_{26}H_{30}O_{13}$

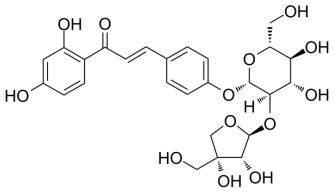
Molecular Weight: 550.51

Target: NF-κB; MMP; p38 MAPK

Pathway: NF-κB; Metabolic Enzyme/Protease; MAPK/ERK Pathway

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (45.41 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8165 mL	9.0825 mL	18.1650 mL
	5 mM	0.3633 mL	1.8165 mL	3.6330 mL
	10 mM	0.1816 mL	0.9082 mL	1.8165 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Isoliquiritin apioside 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[1].

IC_{50} & Target			
	MMP9	NF-κB	p38 MAPK

In Vitro

Isoliquiritin apioside efficiently suppresses the PMA-induced gelatinolytic MMP-9 activity in HT1080 cells. Isoliquiritin apiosidealso decreases the PMA-induced increase in MMP-9 production in HT1080 cells.Isoliquiritin apioside possesses anti-metastatic and anti-angiogenic abilities in malignant cancer cells and endothelial cells (ECs), with no cytotoxicity[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int Immunopharmacol. 2022 May 18;108:108852.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

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

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