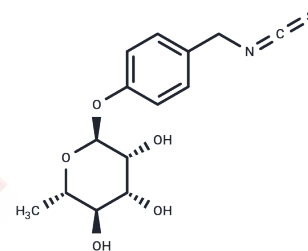


Moringin

Chemical Properties

CAS No. :	73255-40-0
Formula:	C ₁₄ H ₁₇ N ₁ O ₅ S
Molecular Weight:	311.35
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Moringin is an isothiocyanate obtained from myrosinase-mediated hydrolysis of the glucosinolate precursor glucoMoringin present in Moringa oleifera seeds. Moringin has anti-inflammatory and antioxidative properties.
Targets(IC50)	Bcl-2 Family, Caspase, Nrf2, COX, gp120/CD4, GSK-3, IL Receptor, p53, PPAR, TNF, TRP/TRPV Channel, Wnt/beta-catenin
In vitro	Moringin modulates neuroinflammation via the β -catenin-PPAR γ axis and activates Wnt canonical pathway by inhibiting GSK3 β in a mouse model of experimental autoimmune encephalomyelitis. Moringin is effective in inducing apoptosis through p53 and Bax activation and Bcl-2 inhibition. Moringin demonstrates the antitumor efficacy in human malignant astrocytoma cells. The combination of Cannabidiol (5 μ M) and Moringin (5 μ M) has anti-inflammatory, antioxidative, and anti-apoptotic effects[1].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (200.74 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 (6.42 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	3.2118 mL	16.0591 mL	32.1182 mL
5 mM	0.6424 mL	3.2118 mL	6.4236 mL
10 mM	0.3212 mL	1.6059 mL	3.2118 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

Rajan TS, et al. Anti-inflammatory and antioxidant effects of a combination of cannabidiol and moringin in LPS-stimulated macrophages. *Fitoterapia*. 2016 Jul;112:104-15.

Rajan TS, et al. Anticancer activity of glucomoringin isothiocyanate in human malignant astrocytoma cells. *Fitoterapia*. 2016 Apr;110:1-7.

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