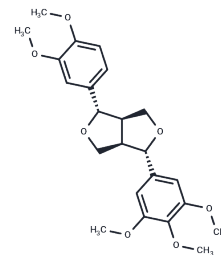


magnolin

Chemical Properties

CAS No. :	31008-18-1
Formula:	C ₂₃ H ₂₈ O ₇
Molecular Weight:	416.46
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	Magnolin reduces the renal oxidative stress, suppresses caspase-3 activity, and increases Bcl-2 expression in vivo and in vitro. Magnolin has anti-inflammatory and antioxidative effects.
Targets(IC50)	ERK

Solubility Information

Solubility	DMSO: 250 mg/mL (600.3 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble) Chloroform, Dichloromethane, Ethyl Acetate: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (24.01 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (24.01 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.4012 mL	12.006 mL	24.0119 mL
5 mM	0.4802 mL	2.4012 mL	4.8024 mL
10 mM	0.2401 mL	1.2006 mL	2.4012 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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

Wang F, et al. Magnolin protects against contrast-induced nephropathy in rats via antioxidation and antiapoptosis. *Oxid Med Cell Longev.* 2014;2014:203458.

Lee CJ, et al. Targeting of magnolin on ERKs inhibits Ras/ERKs/RSK2-signaling-mediated neoplastic cell transformation. *Carcinogenesis.* 2014 Feb;35(2):432-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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