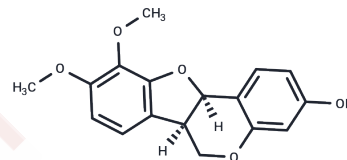


Methylnissolin

Chemical Properties

CAS No. :	73340-41-7
Formula:	C17H16O5
Molecular Weight:	300.31
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	Methylnissolin is a natural product isolated from <i>Astragalus membranaceus</i> that inhibits platelet-derived growth factor (PDGF)-BB-induced cell proliferation with an IC ₅₀ of 10 μM. It inhibits PDGF-BB-induced vascular smooth muscle cell proliferation by inhibiting the ERK1/2 MAP kinase cascade. It also inhibits PDGF-BB-induced phosphorylation of extracellular signal-regulated kinase 1/2 (ERK1/2) mitogen-activated protein (MAP) kinases and has antibacterial and anticancer effects.
Targets(IC50)	ERK,PDGFR

Solubility Information

Solubility	DMSO: 100 mg/mL (332.99 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: 10 mg/mL (33.3 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (33.3 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	3.3299 mL	16.6495 mL	33.2989 mL
5 mM	0.666 mL	3.3299 mL	6.6598 mL
10 mM	0.333 mL	1.6649 mL	3.3299 mL
50 mM	0.0666 mL	0.333 mL	0.666 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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