

CDDO-3P-Im

Chemical Properties

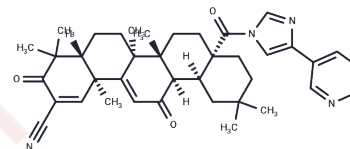
CAS No. : 1883650-95-0

Formula: C39H46N4O3

Molecular Weight: 618.81

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	CDDO-3P-Im is an orally active inhibitor of necroptosis with chemopreventive effects. CDDO-3P-Im can be used in studies about ischemia/reperfusion.
Targets(IC50)	Apoptosis,Necroptosis
In vitro	CDDO-3P-Im (30 nM) induces differentiation of U937 cells. In RAW264.7 cells, CDDO-3P-Im suppresses NO production (IC50 = 4.3 nM)[1].
In vivo	CDDO-3P-Im reduces the size and the severity of the lung tumors in mouse lung cancer models. In A/J mice, CDDO-3P-Im (50-200 mg/kg; diet) decreases the number, size, and severity of tumors. CDDO-3P-Im significantly elevates heme oxygenase-1 and quinone reductase mRNA and protein levels in various mouse tissues[1].

Solubility Information

Solubility	DMSO: 225 mg/mL (363.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (5.33 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	1.616 mL	8.080 mL	16.160 mL
5 mM	0.3232 mL	1.616 mL	3.232 mL
10 mM	0.1616 mL	0.808 mL	1.616 mL
50 mM	0.0323 mL	0.1616 mL	0.3232 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

Cao M , et al. Novel synthetic pyridyl analogues of CDDO-Imidazolidine are useful new tools in cancer prevention. Pharmacol Res. 2015 Oct;100:135-47.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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