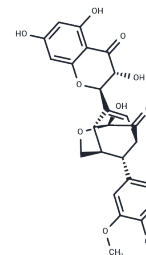


Silydianin

Chemical Properties

CAS No. :	29782-68-1
Formula:	C ₂₅ H ₂₂ O ₁₀
Molecular Weight:	482.44
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	Silydianin (Silidianin) exerts inhibition of UGT in human liver. Silydianin exerts inhibition of OATP1B1, OATP1B3 (unknown origin) expressed in HEK293 cells. Silydianin exerts inhibition of OATP2B1 (unknown origin) expressed in MDCK2 cells.
Targets(IC50)	Apoptosis, Endogenous Metabolite, Interleukin, Phosphatase, Tyrosinase

Solubility Information

Solubility	DMSO: 65 mg/mL (134.73 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 (4.15 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	2.0728 mL	10.364 mL	20.728 mL
5 mM	0.4146 mL	2.0728 mL	4.1456 mL
10 mM	0.2073 mL	1.0364 mL	2.0728 mL
50 mM	0.0415 mL	0.2073 mL	0.4146 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

Greimel A., et al. Peroxidase isoenzymes in cress seedlings (*Lepidium sativum* L.) and their inhibition by silybin, silydianin and silychristin. *Experientia* [01 Dec 1977, 33(12):1568-1569]

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