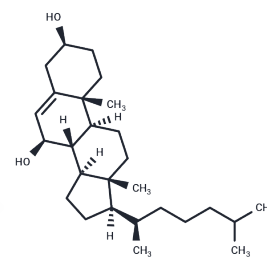


7 Beta-Hydroxycholesterol

Chemical Properties

CAS No. :	566-27-8
Formula:	C ₂₇ H ₄₆ O ₂
Molecular Weight:	402.65
Storage:	Keep away from direct sunlight, Store at low temperature 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	7 Beta-Hydroxycholesterol (7 β -Hydroxycholesterol) is an oxysterol contained in animal-derived foods. It is an oxidative stress inducer and a candidate marker for assessing cardiovascular risk factors in obesity. It can induce oxidative stress and inflammation and promote atherosclerosis.
Targets(IC50)	Apoptosis,Others,Interleukin,ROS
In vitro	b>METHODS: Human NCI-H460 lung cancer cells were treated with 7 β -Hydroxycholesterol (10, 20 and 30 μ M for 14 days) and subjected to a clonogenic survival assay. RESULTS: 7 β -Hydroxycholesterol inhibited the clonogenic survival of NCI-H460 cells in a dose-dependent manner, with survival rates of 102%, 75%, 35% and 12% at concentrations of 5, 10, 20 and 30 μ M, respectively. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (198.68 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: 3.3 mg/mL (8.2 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	2.4835 mL	12.4177 mL	24.8355 mL
5 mM	0.4967 mL	2.4835 mL	4.9671 mL
10 mM	0.2484 mL	1.2418 mL	2.4835 mL
50 mM	0.0497 mL	0.2484 mL	0.4967 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

Cytotoxic effect of 7beta-hydroxycholesterol on human NCI-H460 lung cancer cells. *Biol. Pharm. Bull.*, 2005, 28(8): 1377-80.

Vejux A, et al. 7-Ketocholesterol and 7β-hydroxycholesterol: In vitro and animal models used to characterize their activities and to identify molecules preventing their toxicity. *Biochem Pharmacol.* 2020 Mar;173:113648.

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