

Cholesterol myristate

Chemical Properties

CAS No. : 1989-52-2

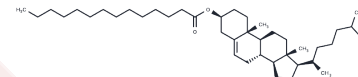
Formula: C41H72O2

Molecular Weight: 597.01

Keep away from direct sunlight

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	Cholesterol Myristate (Cholesteryl Myristate) is a natural steroid found in traditional Chinese medicine that interacts with various ion channels, including the GABAA receptor, nicotinic acetylcholine receptor, and the inward-rectifier potassium ion channel.
Targets(IC50)	GABA Receptor,Endogenous Metabolite,AChR,Potassium Channel

Solubility Information

Solubility	H2O: Insoluble, DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.675 mL	8.3751 mL	16.7501 mL
5 mM	0.335 mL	1.675 mL	3.350 mL
10 mM	0.1675 mL	0.8375 mL	1.675 mL
50 mM	0.0335 mL	0.1675 mL	0.335 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

Chen DF, et al. Cholesterol myristate suppresses the apoptosis of mesenchymal stem cells via upregulation of inhibitor of differentiation. *Steroids*. 2010 Dec 12;75(13-14):1119-26.

Chen DF, et al. BMP-Id pathway targeted by cholesterol myristate suppresses the apoptosis of PC12 cells. *Brain Res*. 2011 Jan 7;1367:33-42.

Levitan I, et al. Cholesterol binding to ion channels. *Front Physiol*. 2014 Feb 26;5:65.

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