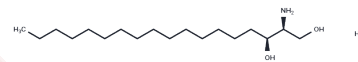


Safingol hydrochloride

Chemical Properties

CAS No. :	139755-79-6
Formula:	C ₁₈ H ₄₀ ClNO ₂
Molecular Weight:	337.969
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	Safingol hydrochloride (L-threo-dihydrosphingosine hydrochloride) is a specific inhibitor of protein kinase C. It induces autophagy in solid tumor cells and cancer cell death by inhibiting the PKC and PI3-kinase pathways. BIIB 722 Mesylate is a selective sodium-hydrogen exchange inhibitor. Safingol hydrochloride inhibits PKC and PI3k.
Targets(IC50)	PI3K,PKC

Solubility Information

Solubility	DMSO: 34.47 mg/mL (101.99 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9588 mL	14.7942 mL	29.5884 mL
5 mM	0.5918 mL	2.9588 mL	5.9177 mL
10 mM	0.2959 mL	1.4794 mL	2.9588 mL
50 mM	0.0592 mL	0.2959 mL	0.5918 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

Tan KB, et al. In vivo efficacy of a novel liposomal formulation of safingol in the treatment of acute myeloid leukemia. J Control Release. 2012 Jun 10;160(2):290-8.

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