

PHYTOSPHINGOSINE

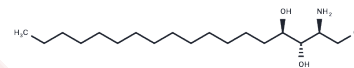
Chemical Properties

CAS No. : 554-62-1

Formula: C₁₈H₃₉N₃O₃

Molecular Weight: 317.51

Storage: Keep away from direct sunlight, Store at low temperature, Store under nitrogen
 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	Phytosphingosine is a phospholipid with anticancer properties. In cancer cells, Phytosphingosine induces cell apoptosis through activation of caspase 8 and translocation of Bax.
Targets(IC50)	Apoptosis, Endogenous Metabolite, Antifungal, GPCR

Solubility Information

Solubility	DMSO: 7.5 mg/mL (23.62 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: 4 mg/mL (12.6 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	3.1495 mL	15.7475 mL	31.4951 mL
5 mM	0.6299 mL	3.1495 mL	6.299 mL
10 mM	0.315 mL	1.5748 mL	3.1495 mL
50 mM	0.063 mL	0.315 mL	0.6299 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

Moon-Taek Park, et al. Phytosphingosine Induces Apoptotic Cell Death via Caspase 8 Activation and Bax Translocation in Human Cancer Cells. Clin Cancer Res. 2003 Feb;9(2):878-85.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481