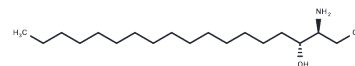


D-Erythro-dihydrosphingosine

Chemical Properties

CAS No. :	764-22-7
Formula:	C ₁₈ H ₃₉ NO ₂
Molecular Weight:	301.51
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	D-Erythro-dihydrosphingosine (C18-Dihydrosphingosine) inhibits arachidonic acid release and cPLA2 α activity.
Targets(IC50)	Phospholipase,Endogenous Metabolite
In vitro	In PC12 cells, D-Erythro-dihydrosphingosine inhibits mastoparan-stimulated arachidonic acid release. D-Erythro-dihydrosphingosine (100 μ M) slightly inhibits [3H]Arachidonic acid release[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (33.2 mM) Ethanol: 20 mg/mL (66.4 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3166 mL	16.5832 mL	33.1664 mL
5 mM	0.6633 mL	3.3166 mL	6.6333 mL
10 mM	0.3317 mL	1.6583 mL	3.3166 mL
50 mM	0.0663 mL	0.3317 mL	0.6633 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.

Reference

Nakamura H, et al. Inhibition of arachidonic acid release and cytosolic phospholipase A2 alpha activity by D-erythro-sphingosine. Eur J Pharmacol. 2004 Jan 19;484(1):9-17.

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