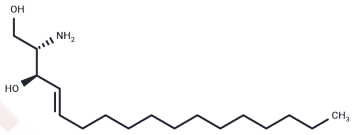
Data Sheet (Cat.No.T78473)

TargetMol

Sphingosine (d17:1)

Chemical Properties



CAS No. : 6918-48-5

Formula: C17H35NO2

Molecular Weight: 285.47

Storage: Store at low temperature
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	Sphingosine (d17:1) (C17 Sphingosine) is a 17-carbon sphingolipid found in human skin that can be phosphorylated by sphingomyelin kinase.Sphingosine C-17 can be used as an internal standard to perform spectroscopic analysis of sphingolipids.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.503 mL	17.515 mL	35.030 mL
5 mM	0.7006 mL	3.503 mL	7.006 mL
10 mM	0.3503 mL	1.7515 mL	3.503 mL
50 mM	0.0701 mL	0.3503 mL	0.7006 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

Stewart ME, et al. Free sphingosines of human skin include 6-hydroxysphingosine and unusually long-chain dihydrosphingosines. J Invest Dermatol. 1995 Oct;105(4):613-8.

Hong JH, et al. K6PC-5, a direct activator of sphingosine kinase 1, promotes epidermal differentiation through intracellular Ca2+ signaling. J Invest Dermatol. 2008 Sep;128(9):2166-78.

Choi CH, et al. Sphingosine 1-phosphate and sphingosine kinase activity during chicken embryonic development. Arch Pharm Res. 2007 Apr;30(4):502-6.

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