

Data Sheet (Cat.No.TQ0312)

Sphingomyelin

Chemical Properties

CAS No.:	85187-10-6
Formula:	C41H84N2O6P
Molecular Weight:	732.08
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Sphingomyelin is a natural sphingolipid that existed in animal cell membranes. It implicates the regulation of transmembrane signaling.
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Solubility Information

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

	1mg	5mg	10mg
1 mM	1.366 mL	6.830 mL	13.660 mL
5 mM	0.273 mL	1.366 mL	2.732 mL
10 mM	0.137 mL	0.683 mL	1.366 mL
50 mM	0.027 mL	0.137 mL	0.273 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Chakraborty M, et al. Sphingomyelin and its role in cellular signaling. Adv Exp Med Biol. 2013;991:1-14.

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