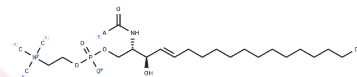


Sphingomyelins (buttermilk)

Chemical Properties

CAS No. :	475662-40-9
Formula:	C ₄₆ H ₉₃ N ₂ O ₆ P (for tricosanoyl)
Molecular Weight:	801.2
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	Sphingomyelins (SMs) are bioactive sphingolipids found in mammalian cell membranes. 1SMs make up 2-15% of the total organ phospholipid population but are found at higher concentrations in the brain and myelin sheaths surrounding peripheral nerves. They interact with cholesterol to control its distribution within cellular membranes and maintain cholesterol homeostasis in cells. SMs undergo hydrolysis by sphingomyelinase to form ceramides, which are sphingolipid mediators of intracellular signaling. ² This product is a mixture of SMs, with variable fatty acyl chain lengths, isolated from buttermilk.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	Ethanol: Soluble Chloroform: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2481 mL	6.2406 mL	12.4813 mL
5 mM	0.2496 mL	1.2481 mL	2.4963 mL
10 mM	0.1248 mL	0.6241 mL	1.2481 mL
50 mM	0.025 mL	0.1248 mL	0.2496 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

Slotte, J.P., and Ramstedt, B. The functional role of sphingomyelin in cell membranes *Eur. J. Lipid Sci. Technol.* 109 (10)977-981(2007)

Shayman, J.A. Sphingolipids *Kidney Int.* 58(1)11-26(2000)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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