

Product Data Sheet

Product Name: Lysosphingomyelin (d18:1)

Cat. No.: GC44105

Chemical Properties

Cas. No. 1670-26-4

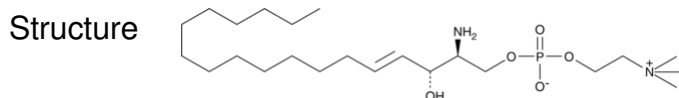
SMILES CCCCCCCCCCCC/C=C/[C@@H](O)[C@@H](N)COP([O-])(OCC[N+](C)(C)C)=O

Formula C₂₃H₄₉N₂O₅P M.Wt 464.6

Solubility Ethanol: 15 mg/ml, PBS (pH 7.2): 5 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.



Background

Sphingomyelins are complex membrane lipids composed of phosphorylcholine, sphingosine, and an acylated group, such as a fatty acid. Lysosphingomyelin is a naturally-occurring lipid which is produced by the removal of the acylated group of sphingomyelin by a deacylase. Lysosphingomyelin may, in turn, serve as a substrate for autotaxin, which removes choline to produce sphingosine-1-phosphate. The receptors and signaling pathways that are activated by lyso-sphingosine are diverse and vary between cell types. Lysosphingomyelin occurs naturally in plasma, is a constituent of lipoproteins, and is increased in some diseases, including dermatitis and Niemann-Pick disease.

Caution: Product has not been fully validated for medical applications. For research use only.

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