

Product Data Sheet

Product Name: Phytosphingosine

Cat. No.: GC44640

Chemical Properties

Cas. No. 554-62-1

SMILES O[C@@H]([C@@H](O)[C@@H](N)CO)CCCCCCCCCCCC

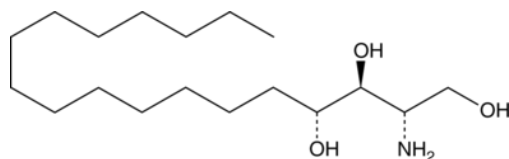
Formula $C_{18}H_{39}NO_3$ M.Wt 317.5

Solubility DMSO:50mg/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.

Structure



Background

Phytosphingosine is a sphingolipid with a hydroxyl group at the C4 position that is found mainly in fungi and plants but also in animals, including humans. It is metabolized to odd-numbered fatty acids with 2-hydroxy palmitic acid as an intermediate. Phytosphingosine dose-dependently induces cell death of CHO cells and inhibits carbachol-induced activation of phospholipase D (PLD) in CHO cells transfected with C. elegans muscarinic acetylcholine receptors. It is essential in the heat stress response in S. cerevisiae.

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

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