

Product Data Sheet

Product Name: Sphingosine (d20:1)

Cat. No.: GC41279

Chemical Properties

Cas. No. 6918-49-6

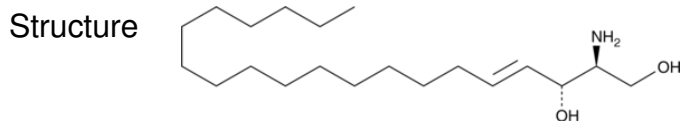
SMILES OC[C@H](N)[C@H](O)/C=C/CCCCCCCCCCCCCCC

Formula C₂₀H₄₁NO₂ M.Wt 327.6

Solubility DMF: 10 mg/ml, DMSO: 2 mg/ml, Ethanol: Miscible
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

Sphingosines are long-chain base precursors of cellular sphingolipids used directly in the synthesis of ceramide, which in combination with sialic acid forms ganglioside. Sphingosine can exist in four stereoisomers, however only sphingosine occurs naturally. Compared to other sphingolipids throughout the body, which are predominantly composed of C-18 sphingosine, only central nervous system (CNS) gangliosides contain significant amounts of sphingosine. The concentration of sphingosine within mammalian brain gangliosides apparently increases with developmental maturation. Furthermore, the ratio of C-18 to C-20 sphingosine in the brain is thought to be related to some nervous system degeneration processes.

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

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