

Product Data Sheet

Product Name: Sphingosine (d14:1)

Cat. No.: GC44930

Chemical Properties

Cas. No. 24558-60-9

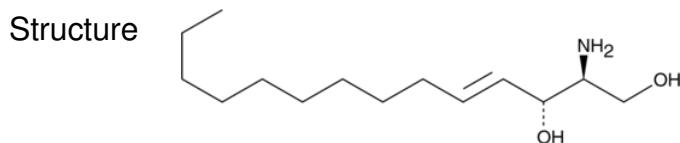
SMILES OC[C@H](N)[C@H](O)/C=C/CCCCCCCC

Formula C₁₄H₂₉NO₂ M.Wt 243.4

Solubility Chloroform: Soluble, DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble
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

Sphingosine (d14:1) is a bioactive sphingolipid that has been found in *B. mori* (silkworm), *P. clarkii* (crayfish), and *A. aurita* (jellyfish) extracts. It increases the germination rate of *N. rileyi*, an entomopathogenic fungus, with an EC₅₀ value of 10.2 nM. Sphingosine (d14:1) inhibits protein kinase C (PKC) in vitro (IC₅₀ = 7.3 mol%) as well as superoxide generation induced by phorbol 12-myristate 13-acetate in neutrophils and reduces growth of CHO cells (IC₅₀s = 19 and 8 μM, respectively).

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

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