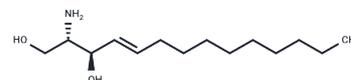


Sphingosine (d14:1)

Chemical Properties

| | |
|-------------------|----------------------------------------------------------|
| CAS No. : | 24558-60-9 |
| Formula: | C14H29NO2 |
| Molecular Weight: | 243.39 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Sphingosine (d14:1) is a bioactive sphingolipid that has been found in <i>B. mori</i> (silkworm), <i>P. clarkii</i> (crayfish), and <i>A. aurita</i> (jellyfish) extracts. It increases the germination rate of <i>N. rileyi</i> , an entomopathogenic fungus, with an EC ₅₀ value of 10.2 nM. Sphingosine (d14:1) inhibits protein kinase C (PKC) in vitro (IC ₅₀ = 7.3 mol%) as well as superoxide generation induced by phorbol 12-myristate 13-acetate in neutrophils and reduces growth of CHO cells (IC ₅₀ s = 19 and 8 μM, respectively). |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Solubility Information

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

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.1086 mL | 20.5432 mL | 41.0863 mL |
| 5 mM | 0.8217 mL | 4.1086 mL | 8.2173 mL |
| 10 mM | 0.4109 mL | 2.0543 mL | 4.1086 mL |
| 50 mM | 0.0822 mL | 0.4109 mL | 0.8217 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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