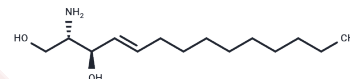


## Sphingosine (d14:1)

## Chemical Properties

CAS No. :	24558-60-9
Formula:	C <sub>14</sub> H <sub>29</sub> NO <sub>2</sub>
Molecular Weight:	243.39
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## 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 <sub>50</sub> value of 10.2 nM. Sphingosine (d14:1) inhibits protein kinase C (PKC) in vitro (IC <sub>50</sub> = 7.3 mol%) as well as superoxide generation induced by phorbol 12-myristate 13-acetate in neutrophils and reduces growth of CHO cells (IC <sub>50</sub> s = 19 and 8 μM, respectively).
Targets(IC50)	Others,PKC

## Solubility Information

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

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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