

Certificate of Analysis

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Product Name: Dihydrosphingosine

Catalog No.: 0749

Batch No.: 2

CAS Number: 3102-56-5

IUPAC Name: DL-*erythro*-1,3-Dihydroxy-2-aminooctadecane

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₃₉NO₂·½H₂O

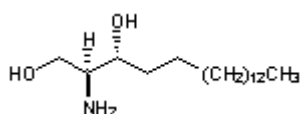
Batch Molecular Weight: 310.5176

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Chloroform:Methanol:Ammonia soln. [50:50:1])

Melting Point: Between 75 - 90°C

¹H NMR: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 69.62 12.98 4.51

Found 69.5 12.9 4.39

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Description:

Protein kinase C inhibitor.

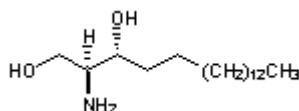
Physical and Chemical Properties:

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Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Yung et al (1993) Differential regulation of protein kinase C isoenzymes during sphinganine potentiation of retinoic acid-induced granulocytic differentiation in human leukemia HL-60 cells. *Biochem.Biophys.Res.Commun.* **196** 1390. PMID: 8250895.

Yung et al (1994) Sphinganine potentiation of dimethyl sulfoxide-induced granulocyte differentiation, increase of alkaline phosphatase activity and decrease of protein kinase C activity in a human leukemia cell line (HL-60). *Biochem.Biophys.Res.Commun.* **199** 888. PMID: 8135836.

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