

Certificate of Analysis

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Product Name: D-erythro-Sphingosine (synthetic)

Catalog No.: 0633

Batch No.: 4

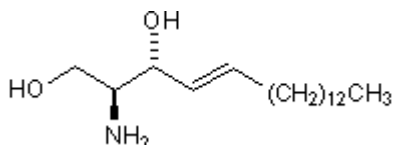
CAS Number: 123-78-4

EC Number: 204-651-3

IUPAC Name: *trans*-D-erythro-2-Amino-4-octadecene-1,3-diol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₃₇NO₂
Batch Molecular Weight: 299.5
Physical Appearance: White solid
Solubility: DMSO to 5 mM
 ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.19	12.45	4.68
Found	71.85	12.36	4.72

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

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Description:

Inhibitor of protein kinase C and calmodulin-dependent enzymes, but may stimulate mast cells by activation of protein kinase C.

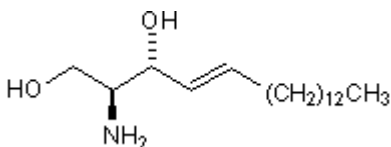
Physical and Chemical Properties:

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Solubility & Usage Info:

DMSO to 5 mM

ethanol to 50 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:

Merrill et al (1989) Structural requirements for long-chain (sphingoid) base inhibition of protein kinase C *in vitro* and for the cellular effects of these compounds. *Biochemistry* **28** 3138. PMID: 2742830.

Grossman (1990) Sphingosine inhibition and promotion of histamine release from isolated rat mast cells. *Agents Actions* **31** 171. PMID: 1707581.

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