



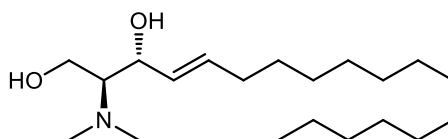
Catalog # 10-2285

N,N-Dimethyl-D-erythro-sphingosine

CAS# 119567-63-4

(2S,3R,E)-2-(Dimethylamino)octadeca-4-ene-1,3-diol

Lot # FBM2026



Endogenous sphingolipid¹. Inhibits sphingosine kinase (IC₅₀ = 5µM)². Induces apoptosis in a variety of cell lines³.

- 1) Igarashi *et al.* (1990), *A specific enhancing effect of N,N-dimethylsphingosine on epidermal growth factor receptor autophosphorylation. Demonstration of its endogenous occurrence (and the virtual absence of unsubstituted sphingosine) in human epidermoid carcinoma A431 cells*; J. Biol. Chem., **265** 5385
- 2) Yatomi *et al.* (1996), *N,N-dimethylsphingosine inhibition of sphingosine kinase and sphingosine 1-phosphate activity in human platelets* ; Biochemistry, **35** 626
- 3) Gude *et al.* (2008), *Apoptosis induces expression of sphingosine kinase 1 to release sphingosine-1-phosphate as a "come-and-get-me" signal* ; FASEB J., **22** 2629

PHYSICAL DATA

Molecular Weight:	327.55
Molecular Formula:	C ₂₀ H ₄₁ NO ₂
Purity:	98% by TLC NMR (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or ethanol (up to 25 mg/ml)
Physical Description:	White to off-white waxy solid or viscous oil
Storage and Stability:	Store as supplied at -20°C for up to 3 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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