



LKT Laboratories, Inc.

N,N-Dimethyl-Sphingosine

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Product Information

Product ID S6131

CAS No. 119567-63-4

Chemical Name 4-Octadecene-1,3-diol, 2-(dimethylamino)-, (R-(R*,S*-(E)))-

Synonym N,N-Dimethyl-D-*erythro*-sphingosine

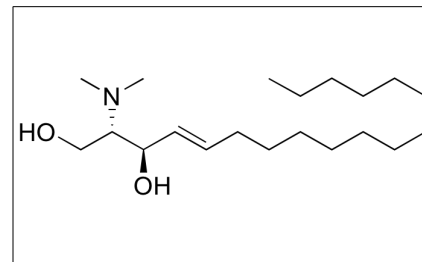
Formula C₂₀H₄₁NO₂

Formula Wt. 327.5

Melting Point

Purity ≥98%

Solubility Soluble in DMSO or ethanol.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S6131	5 mg	\$82.40

Store Temp -20° C

Ship Temp Ambient

Description N,N-Dimethyl sphingosine inhibits sphingosine kinase 1 (Sphk1) and PKC and exhibits neuromodulatory and anticancer chemotherapeutic activities. This compound activates protein phosphatase 2A (PP2A) activity by suppressing ANP32A inhibition of PP2A in vitro. Additionally, this compound inhibits cell proliferation and tumor growth in cellular and animal models of gastric carcinoma.

References Rosa R, Marciano R, Malapelle U, et al. Sphingosine kinase 1 overexpression contributes to cetuximab resistance in human colorectal cancer models. *Clin Cancer Res.* 2013 Jan 1;19(1):138-47. PMID: 23166225.

Habrukowich C, Han DK, Le A, et al. Sphingosine interaction with acidic leucine-rich nuclear phosphoprotein-32A (ANP32A) regulates PP2A activity and cyclooxygenase (COX)-2 expression in human endothelial cells. *J Biol Chem.* 2010 Aug 27;285(35):26825-31. PMID: 20558741.

Endo K, Igarashi Y, Nisar M, et al. Cell membrane signaling as target in cancer therapy: inhibitory effect of N,N-dimethyl and N,N,N-trimethyl sphingosine derivatives on in vitro and in vivo growth of human tumor cells in nude mice. *Cancer Res.* 1991 Mar 15;51(6):1613-8. PMID: 1998952.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.