

L-Erythro-Sphingosine

Chemical Properties

CAS No. : 6036-75-5

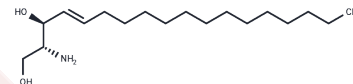
Formula: C₁₈H₃₇NO₂

Molecular Weight: 299.49

Store at low temperature

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	L-erythro-Sphingosine is an L-isomer of sphingosine.
Targets(IC50)	Others
In vitro	Addition of the (unnatural) enantiomer L-erythro-sphingosine failed to show any impact on OCR(mitochondrial oxygen consumption rate). [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.339 mL	16.695 mL	33.3901 mL
5 mM	0.6678 mL	3.339 mL	6.678 mL
10 mM	0.3339 mL	1.6695 mL	3.339 mL
50 mM	0.0668 mL	0.3339 mL	0.6678 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.

Reference

Truman JP, et al. Sphingosine kinase 1 downregulation is required for adaptation to serine deprivation. *FASEB J*. 2021 Feb;35(2):e21284.

Molinski TF, Broaddus CD, Morinaka BI. Liposomal Circular Dichroism (L-CD) of Arenoyl Derivatives of Sphingolipids. Amplification of Cotton Effects in Ordered Lipid Bilayers. *Mar Drugs*. 2017 Dec 20;15(12). pii: E352. doi: 10.3390/md15120352. PubMed PMID: 29261105; PubMed Central PMCID: PMC5742824.

Hassouneh LK, Timofiychuk OA, Babenko NA. Acid sphingomyelinase inhibitors, imipramine and zoledronic acid, increase skeletal muscle tissue sensitivity to insulin action at old age. *Gen Physiol Biophys*. 2018 Mar;37(2):163-174. doi: 10.4149/gpb_2017020. Epub 2017 Nov 10. PubMed PMID: 29125130.

Paz Ramos A, Gooris G, Bouwstra J, Lafleur M. Evidence of hydrocarbon nanodrops in highly ordered stratum corneum model membranes. *J Lipid Res*. 2018 Jan;59(1):137-143. doi: 10.1194/jlr.M080432. Epub 2017 Nov 1. PubMed PMID: 29092959; PubMed Central PMCID: PMC5748504.

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