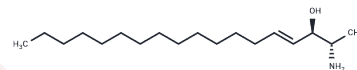


## 1-Deoxysphingosine (m18:1(4E))

## Chemical Properties

CAS No. :	193222-34-3
Formula:	C18H37NO
Molecular Weight:	283.5
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	1-Deoxysphingosine (m18:1(4E)) is an atypical sphingolipid that contains a double bond at the 4E native position and is formed when serine palmitoyltransferase condenses palmitoyl-CoA with alanine instead of serine during sphingolipid synthesis. <sup>1,2</sup> Plasma levels of 1-deoxysphingosine (m18:1(4E)) are increased in patients with chronic idiopathic axonal neuropathy (CIAP) and diabetic distal symmetrical polyneuropathy (DSPN). <sup>3</sup>
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 2 mg/mL (7.05 mM),Sonication is recommended. Ethanol: Miscible DMF: 10 mg/mL (35.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5273 mL	17.6367 mL	35.2734 mL
5 mM	0.7055 mL	3.5273 mL	7.0547 mL
10 mM	0.3527 mL	1.7637 mL	3.5273 mL
50 mM	0.0705 mL	0.3527 mL	0.7055 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

Steiner, R., Saied, E.M., Othman, A., et al. Elucidating the chemical structure of native 1-deoxysphingosine. *J. Lipid Res.* 57(7), 1194-1203 (2016).

Alecu, I., Othman, A., Penno, A., et al. Cytotoxic 1-deoxysphingolipids are metabolized by a cytochrome P450-dependent pathway. *J. Lipid Res.* 58(1), 60-71 (2017).

Hube, L., Dohrn, M.F., Karsai, G., et al. Metabolic syndrome, neurotoxic 1-deoxysphingolipids and nervous tissue inflammation in chronic idiopathic axonal polyneuropathy (CIAP). *PLoS One* 12(1):e0170583, (2017).

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