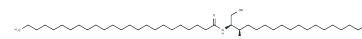


C24 dihydro Ceramide (d18:0/24:0)

Chemical Properties

CAS No. :	6063-36-1
Formula:	C42H85NO3
Molecular Weight:	652.146
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	C24 dihydro Ceramide is a sphingolipid that has been found in the stratum corneum of human skin.[1] It is found in higher concentrations in female sebum compared to male sebum.[2] C24 dihydro Ceramide levels positively correlate with cytotoxicity in CCRF-CEM, MOLT-4, COG-LL-317h, and COG-LL-332h T cell acute lymphoblastic leukemia (ALL) cell lines.[4] Levels of C24 dihydro ceramide are increased by 149.49-fold in dihydroceramide desaturase 1 (DEGS1) knockdown UM-SCC-22A human head and neck squamous carcinoma cells in vitro.[4] C24 dihydro Ceramide levels are also increased in INS-1 β-cells incubated with glucose and palmitate.[5]
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Solubility Information

Solubility	DMF: 0.15 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5334 mL	7.6669 mL	15.3339 mL
5 mM	0.3067 mL	1.5334 mL	3.0668 mL
10 mM	0.1533 mL	0.7667 mL	1.5334 mL
50 mM	0.0307 mL	0.1533 mL	0.3067 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.

Reference

Farwanah, H., Wohlrab, J., Neubert, R.H., et al. Profiling of human stratum corneum ceramides by means of normal phase LC/APCI-MS. Anal. Bioanal. Chem. 383(4), 632-637 (2005).

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