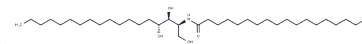


C18 Phytoceramide (t18:0/18:0)

Chemical Properties

CAS No. :	34354-88-6
Formula:	C ₃₆ H ₇₃ N ₄ O ₄
Molecular Weight:	583.98
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	C18 Phytoceramide (t18:0/18:0) (Cer(t18:0/18:0)) is a bioactive sphingolipid present in <i>Saccharomyces cerevisiae</i> , wheat grains, and the mammalian epidermal stratum corneum, composed of a phytosphingosine backbone amide-linked to a C18 fatty acid chain, C18 Phytoceramide regulates apoptosis, cell differentiation, smooth muscle cell proliferation, and mitochondrial respiratory chain activity while inhibiting IL-4, TNF- α , c-Jun, and NF- κ B expression in histone-stimulated murine skin tissue, supporting its use in dermatological, inflammatory, and cosmetic skin barrier research.
Targets(IC50)	Endogenous Metabolite,IL Receptor,TNF

Solubility Information

Solubility	Chloroform:Methanol (1:1): Soluble,Heating is recommended. Methanol: 0.8 mg/mL (1.37 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	1.7124 mL	8.5619 mL	17.1239 mL
5 mM	0.3425 mL	1.7124 mL	3.4248 mL
10 mM	0.1712 mL	0.8562 mL	1.7124 mL
50 mM	0.0342 mL	0.1712 mL	0.3425 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

Bouwstra J A, et al. The skin barrier in healthy and diseased state[J]. Chemistry and Physics of Lipids, 2009, 160: S16.
Meckfessel M H, et al. The structure, function, and importance of ceramides in skin and their use as therapeutic agents in skin-care products[J]. Journal of the American Academy of Dermatology, 2014, 71(1): 177-184.

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