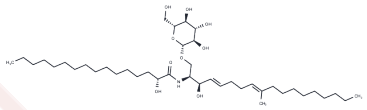
Data Sheet (Cat.No.TN1481)

TargetMol

Cerebroside B

Chemical Properties



CAS No. : 88642-46-0

Formula: C41H77NO9

Molecular Weight: 728.065

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	Cerebroside B1b has antiulcerogenic activity.
Targets(IC50)	Antifection,Antifungal
In vitro	Here, fusaruside is clarified biosynthetically, and its efficacy-related 10,11-double bond can be generated under the regioselective catalysis of an unprecedented α?10(E)-sphingolipid desaturase (α?10(E)-SD). α?10(E)-SD shares 17.7% amino acid sequence similarity with a C9-unmethylated α?10-sphingolipid desaturase derived from a marine diatom, and 55.7% with α?8(E)-SD from Fusarium graminearum. Heterologous expression of α?10(E)-SD in Pichia pastoris has been established to facilitate a reliable generation of 1 through the α?10(E)-SD catalyzed desaturation of Cerebroside B (2), an abundant fungal sphingolipid. Site directed mutageneses show that the conserved histidines of α?10(E)-SD are essential for the 10,11-desaturation catalysis, which is also preconditioned by the C9-methylation of the substrate. Moreover, α?10(E)-SD confers improved survival and faster growth to fungal strains at low temperature and high salinity, in parallel with to higher contents of 1 in the mycelia.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3735 mL	6.8675 mL	13.7349 mL
5 mM	0.2747 mL	1.3735 mL	2.747 mL
10 mM	0.1373 mL	0.6867 mL	1.3735 mL
50 mM	0.0275 mL	0.1373 mL	0.2747 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

α10(E)-Sphingolipid Desaturase Involved in Fusaruside Mycosynthesis and Stress Adaptation in Fusarium graminearum.Sci Rep. 2015 May 21;5:10486.

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