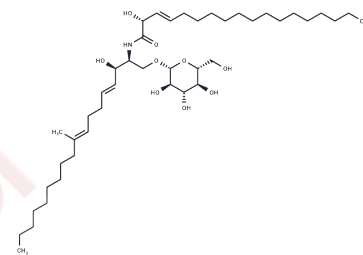


Cerebroside C

Chemical Properties

CAS No. :	98677-33-9
Formula:	C43H79NO9
Molecular Weight:	754.09
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 C is a fungal metabolite and glycosphingolipid that has been found in the rice pathogenic fungus <i>M. grisea</i> . It induces production of the phytoalexin momilactone A when applied to wounded rice leaves, indicating that cerebroside C is an elicitor of the hypersensitive response in rice. Cerebroside C increases germination rate and reduces germination time in wheat seeds in a concentration-dependent manner at 4°C. It also increases root length, fresh weight, and dry weight of wheat seedlings when used at a concentration of 20 µg/ml at 4°C, indicating increased chilling tolerance.
Targets(IC50)	Others, Endogenous Metabolite

Solubility Information

Solubility	Ethanol: Soluble DMSO: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3261 mL	6.6305 mL	13.261 mL
5 mM	0.2652 mL	1.3261 mL	2.6522 mL
10 mM	0.1326 mL	0.6631 mL	1.3261 mL
50 mM	0.0265 mL	0.1326 mL	0.2652 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

Koga, J., Yamuchi, T., Shimura, M., et al. Cerebrosides A and C, sphingolipid elicitors of hypersensitive cell death and phytoalexin accumulation in rice plants. *J. Biol. Chem.* 273(48):31985-31991 (1998)

Li, H.-X., Xiao, Y., Cao, L.-L., et al. Cerebroside C increases tolerance to chilling injury and alters lipid composition in wheat roots. *PLoS One* 8(9):e73380 (2013)

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