Data Sheet (Cat.No.T36348)



Cerebroside C

Chemical Propert	ies
CAS No. :	98677-33-9
Formula:	C43H79N09
Molecular Weight:	754.09
Appearance: 🦲	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	Cerebroside C is a fungal metabolite and glycosphingolipid that has been found in the rice pathogenic fungusM. grisea.1It 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.2It 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.

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

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.

Reference

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

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