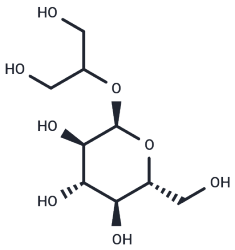
Data Sheet (Cat.No.T38376)

TargetMol

2-O-(α-D-Glucopyranosyl)glycerol

Chemical Properties



CAS No. : 22160-26-5

Formula: C9H18O8

Molecular Weight: 254.23

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	2-O-(α-D-Glucopyranosyl)glycerol (2-alphaGG) is present in certain bacteria and plants that thrive in harsh environments and may extend the lifespan of budding yeast and erythrosporidium by enhancing their osmotic response.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 30 mg/mL (118 mM),Sonication is recommended. DMF: 30 mg/mL (118 mM),Sonication is recommended. DMSO: 50 mg/mL (196.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9334 mL	19.6672 mL	39.3345 mL
5 mM	0.7867 mL	3.9334 mL	7.8669 mL
10 mM	0.3933 mL	1.9667 mL	3.9334 mL
50 mM	0.0787 mL	0.3933 mL	0.7867 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

Zhou J,et al. Sucrose phosphorylase from Lactobacillus reuteri: Characterization and application of enzyme for production of 2-O-α-d-glucopyranosyl glycerol. Int J Biol Macromol. 2022 Jun 1;209(Pt A):376-384.
Hincha, D.K., and Hagemann, M.Stabilization of model membranes during drying by compatible solutes involved in the stress tolerance of plants and microorganismsBiochem. J.383(Pt 2)277-283(2004)

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