

Volemitol

Chemical Properties

CAS No. : 488-38-0

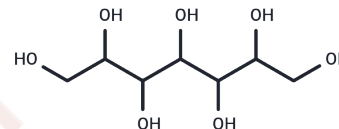
Formula: C₇H₁₆O₇

Molecular Weight: 212.20

Storage: Keep away from moisture, Keep away from direct sunlight

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	Volemitol is a natural heptitol with important physiological functions. It is the major non-structural carbohydrate in leaves at various developmental stages, acting as a photosynthetic product for phloem transport and a storage carbohydrate. Its biosynthesis is catalyzed by a novel NADPH-dependent ketose reductase.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7125 mL	23.5627 mL	47.1254 mL
5 mM	0.9425 mL	4.7125 mL	9.4251 mL
10 mM	0.4713 mL	2.3563 mL	4.7125 mL
50 mM	0.0943 mL	0.4713 mL	0.9425 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

Hafliger B, et al. Metabolism of D-glycero-D-manno-heptitol, volemitol, in polyanthus. Discovery Of a novel ketose reductase1. Plant Physiol. 1999 Jan;119(1):191-8.

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