
Product Data Sheet

Product Name: Volemitol
Cat. No.: GC37919

Chemical Properties

Cas. No. 488-38-0

SMILES OC[C@@H](O)[C@@H](O)C(O)[C@H](O)[C@H](O)CO

Formula C₇H₁₆O₇ M.Wt 212.2

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Volemitol (D-Volemitol) is a seven-carbon sugar alcohol that fulfills several important physiological functions in certain species of the genus *Primula*. Volemitol is the major nonstructural carbohydrate in leaves of all stages of development. Volemitol functions as a photosynthetic product, phloem translocate (phloem-mobile), and storage carbohydrate. Volemitol biosynthesis proceeds by a novel, NADPH-dependent, ketose reductase (sedoheptulose reductase)[1].

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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