

Iditol

Chemical Properties

CAS No.:	488-45-9
Formula:	C ₆ H ₁₄ O ₆
Molecular Weight:	182.17
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Iditol is a compound of rare sugar alcohol (polyol).
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Solubility Information

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

	1mg	5mg	10mg
1 mM	5.489 mL	27.447 mL	54.894 mL
5 mM	1.098 mL	5.489 mL	10.979 mL
10 mM	0.549 mL	2.745 mL	5.489 mL
50 mM	0.110 mL	0.549 mL	1.098 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Mukherjee K, Narindoshvili T, Raushel FM. Discovery of a Kojibiose Phosphorylase in Escherichia coli K-12. *Biochemistry*. 2018 May 15;57(19):2857-2867. doi: 10.1021/acs.biochem.8b00392. Epub 2018 Apr 30. PubMed PMID: 29684280; PubMed Central PMCID: PMC5953851.
2. Tanimoto T. [Enzymological Studies on the Mechanisms of Pathogenesis of Diabetic Complications]. *Yakugaku Zasshi*. 2018;138(3):405-415. doi: 10.1248/yakushi.17-00195. Review. Japanese. PubMed PMID: 29503433.
3. Fikry EM, Hasan WA, Mohamed EG. Rutin and meloxicam attenuate paw inflammation in mice: Affecting sorbitol dehydrogenase activity. *J Biochem Mol Toxicol*. 2018 Feb;32(2). doi: 10.1002/jbt.22029. Epub 2018 Jan 5. PubMed PMID: 29315975.
4. Şengül B, Beydemir Ş. The interactions of cephalosporins on polyol pathway enzymes from sheep kidney. *Arch Physiol Biochem*. 2018 Feb;124(1):35-44. doi: 10.1080/13813455.2017.1358749. Epub 2017 Jul 31. PubMed PMID: 28758816.

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