

Isomaltitol

Chemical Properties

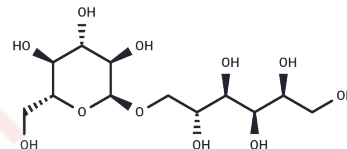
CAS No. : 534-73-6

Formula: C₁₂H₂₄O₁₁

Molecular Weight: 344.31

Storage: 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	Isomaltitol is sugar alcohol. Isomaltitol is commonly used as a sweetener in food products.
Targets(IC50)	Others

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	2.9044 mL	14.5218 mL	29.0436 mL
5 mM	0.5809 mL	2.9044 mL	5.8087 mL
10 mM	0.2904 mL	1.4522 mL	2.9044 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

- Abe K, Kuroda A, Takeshita R. Engineering of *Escherichia coli* to facilitate efficient utilization of isomaltose and panose in industrial glucose feedstock. *Appl Microbiol Biotechnol.* 2017 Mar;101(5):2057-2066. doi: 10.1007/s00253-016-8037-z. Epub 2016 Dec 8. PubMed PMID: 27933453; PubMed Central PMCID: PMC5309279.
- Schröder S, Kröger L, Mattes R, Thiem J. Transglycosylations employing recombinant α - and β -galactosidases and novel donor substrates. *Carbohydr Res.* 2015 Feb 11;403:157-66. doi: 10.1016/j.carres.2014.05.005. Epub 2014 May 20. PubMed PMID: 24909380.
- Evaldsson C, Rydén I, Uppugunduri S. Isomaltitol exacerbates neutrophilia but reduces eosinophilia: new insights into the sephadex model of lung inflammation. *Int Arch Allergy Immunol.* 2011;154(4):286-94. doi: 10.1159/000321820. Epub 2010 Oct 20. PubMed PMID: 20962533.
- Uppugunduri S, Gautam C. Effects of uridine, isomatitol and 4-thiouridine on in vitro cell adhesion and in vivo effects of 4-thiouridine in a lung inflammation model. *Int Immunopharmacol.* 2004 Sep;4(9):1241-8. PubMed PMID: 15251120.

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