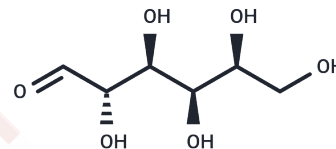


L-Gulose

Chemical Properties

CAS No. :	6027-89-0
Formula:	C ₆ H ₁₂ O ₆
Molecular Weight:	180.16
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	L-Gulose is an unnatural monosaccharide. L-Gulose is the putative furanose form of L-sorbosone that exists as a syrup with a sweet taste. It is an L-hexose sugar and an intermediate in the biosynthesis of L-Ascorbate (vitamin C).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 249 mg/mL (1382.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5506 mL	27.7531 mL	55.5062 mL
5 mM	1.1101 mL	5.5506 mL	11.1012 mL
10 mM	0.5551 mL	2.7753 mL	5.5506 mL
50 mM	0.111 mL	0.5551 mL	1.1101 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

Teruhide Sugisawa, et al. Microbial production of L-ascorbic acid from D-sorbitol, L-sorbose, L-gulose, and L-sorbosone by *Ketogulonicigenium vulgare* DSM 4025. *Biosci Biotechnol Biochem.* 2005 Mar;69(3):659-62.

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