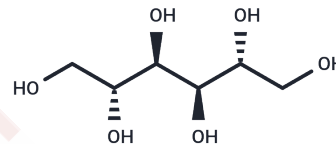


D-Mannitol

Chemical Properties

CAS No. :	69-65-8
Formula:	C ₆ H ₁₄ O ₆
Molecular Weight:	182.17
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	D-Mannitol (Mannitol) is a diuretic and renal diagnostic aid related to sorbitol. It has little significant energy value as it is largely eliminated from the body before any metabolism can take place. It can be used to treat oliguria associated with kidney failure or other manifestations of inadequate renal function and has been used for determination of glomerular filtration rate. D-Mannitol is also commonly used as a research tool in cell biological studies, usually to control osmolarity.
Targets(IC50)	Apoptosis,Endogenous Metabolite,Adrenergic Receptor,Dehydrogenase,PKA

Solubility Information

Solubility	H ₂ O: 35.71 mg/mL (196.03 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	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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

Wang YM, van Eys J. Annu Rev Nutr. 1981; 1:437-75.

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