

D-Xylulose

Chemical Properties

CAS No.:	551-84-8
Formula:	C ₅ H ₁₀ O ₅
Molecular Weight:	150.13
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	D-Xylulose is converted from xylitol by the enzyme NAD ⁺ -linked xylitol dehydrogenase in the glucuronate pathway, the most important xylitol-handling metabolic pathway in mammals.
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Solubility Information

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

	1mg	5mg	10mg
1 mM	6.661 mL	33.304 mL	66.609 mL
5 mM	1.332 mL	6.661 mL	13.322 mL
10 mM	0.666 mL	3.33 mL	6.661 mL
50 mM	0.133 mL	0.666 mL	1.332 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. Jojanneke H J Huck, et al. Evaluation of Pentitol Metabolism in Mammalian Tissues Provides New Insight Into Disorders of Human Sugar Metabolism. Mol Genet Metab. Jul 2004. 82 (3), 231-7.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481