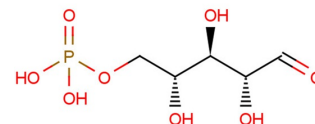


Data Sheet (Cat.No.T19267)

D-Ribose 5-phosphate

Chemical Properties

CAS No.:	4300-28-1
Formula:	C5H11O8P
Molecular Weight:	230.11
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ribose 5-phosphate is the intermediate product of the oxidative branch of the pentose phosphate pathway (PPP) and the final product of the non-oxidative branch of PPP. Ribose 5-phosphate is used in the synthesis of nucleotides and nucleic acids.
Targets(IC ₅₀)	Others: None
In vitro	Ribose 5-phosphate is produced through oxidative and non-oxidative pentose phosphate pathways.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.346 mL	21.729 mL	43.457 mL
5 mM	0.869 mL	4.346 mL	8.691 mL
10 mM	0.435 mL	2.173 mL	4.346 mL
50 mM	0.087 mL	0.435 mL	0.869 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. Grochowski LL, et al. Ribose-5-phosphate biosynthesis in *Methanocaldococcus jannaschii* occurs in the absence of a pentose-phosphate pathway. *J Bacteriol.* 2005 Nov;187(21):7382-9.

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