

D-Ribulose-5-phosphate sodium salt

Chemical Properties

CAS No. : 76054-75-6

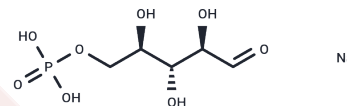
Formula: C₅H₁₁O₈P xNa

Molecular Weight: 253.099

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	D-Ribulose-5-phosphate sodium salt (Ru5P sodium salt) is a compound produced in the pentose phosphate pathway, which participates in glucose metabolism and energy metabolism in the body and can be used to synthesize lipopolysaccharides and amino acids.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): 10 mg/mL (39.51 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	3.951 mL	19.755 mL	39.5101 mL
5 mM	0.7902 mL	3.951 mL	7.902 mL
10 mM	0.3951 mL	1.9755 mL	3.951 mL
50 mM	0.079 mL	0.3951 mL	0.7902 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

- Gumaa KA, et al. The pentose phosphate pathway of glucose metabolism. Enzyme profiles and transient and steady-state content of intermediates of alternative pathways of glucose metabolism in Krebs ascites cells. *Biochem J.* 1969 Dec;115(5):1009-29.
- Patra KC, Hay N. The pentose phosphate pathway and cancer. *Trends Biochem Sci.* 2014 Aug;39(8):347-54.
- Wolosiuk RA, et al. The reductive pentose phosphate cycle for photosynthetic CO₂ assimilation: enzyme modulation. *FASEB J.* 1993 May;7(8):622-37.

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