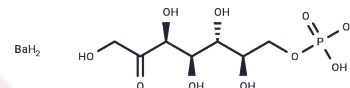


D-Sedoheptulose-7-phosphate (barium salt)

Chemical Properties

CAS No. :	17187-72-3
Formula:	C7H17BaO10P
Molecular Weight:	429.504
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-Sedoheptulose-7-phosphate is an intermediate in the pentose phosphate pathway. [1] [2] In this pathway, transaldolase catalyzes the transfer of a three carbon dihydroxyacetone moiety from D-sedoheptulose-7-phosphate to glyceraldehyde-3-phosphate to generate D-fructose-6-phosphate. D-Sedoheptulose-7-phosphate is also an intermediate in carbon fixation in photosynthetic organisms, as well as in the biosynthesis of lipopolysaccharide, amino acids, secondary metabolites, and antibiotics. [3]
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	PBS (pH 7.2): 50 mg/mL (116.41 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	2.3283 mL	11.6414 mL	23.2829 mL
5 mM	0.4657 mL	2.3283 mL	4.6566 mL
10 mM	0.2328 mL	1.1641 mL	2.3283 mL
50 mM	0.0466 mL	0.2328 mL	0.4657 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, K.A., and McLean, P. 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. *Biochemistry Journal* 115(5), 1009-1029 (1969).

Patra, K.C., and Hay, N. The pentose phosphate pathway and cancer. *Trends Biochem. Sci.* 39(8), 347-354 (2014).

Wolosiuk, R.A., Ballicora, M.A., and Hagelin, K. The reductive pentose phosphate cycle for photosynthetic CO₂ assimilation: Enzyme modulation. *FASEB J.* 7, 622-637 (1993).

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