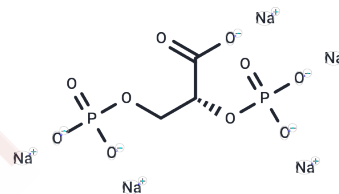


2,3-Diphospho-D-glyceric acid pentasodium salt

Chemical Properties

CAS No. :	102783-53-9
Formula:	C ₃ H ₃ Na ₅ O ₁₀ P ₂
Molecular Weight:	375.95
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	2,3-Diphospho-D-glyceric acid pentasodium salt is a highly anionic polyphosphorus compound located within the concave center of red blood cells, where it decreases oxygen affinity by binding to hemoglobin. This endogenous compound selectively inhibits vascular calcification (VC) and effectively postpones the formation of crystalline calpain particles (CPP). Additionally, it inhibits calcification in the mouse vascular smooth muscle cell line (MOVAS) without eliciting cytotoxic effects [1].
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6599 mL	13.2996 mL	26.5993 mL
5 mM	0.532 mL	2.6599 mL	5.3199 mL
10 mM	0.266 mL	1.330 mL	2.6599 mL
50 mM	0.0532 mL	0.266 mL	0.532 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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