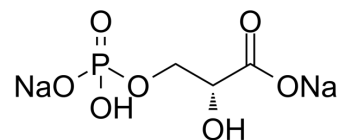


D-(-)-3-Phosphoglyceric acid disodium

Cat. No.:	HY-141412
CAS No.:	80731-10-8
Molecular Formula:	C ₃ H ₅ Na ₂ O ₇ P
Molecular Weight:	230.02
Target:	Enolase
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (434.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.3474 mL	21.7372 mL	43.4745 mL
	5 mM	0.8695 mL	4.3474 mL	8.6949 mL
	10 mM	0.4347 mL	2.1737 mL	4.3474 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

D-(-)-3-Phosphoglyceric acid (3-Phospho-D-glyceric acid) disodium is an important intermediate in the enzyme-catalysed process of glycolysis. D-(-)-3-Phosphoglyceric acid disodium competitively inhibits yeast enolase^{[1][2]}.

REFERENCES

[1]. Ramos ML, Justino LL, Gil VM, Burrows HD. NMR and DFT studies of the complexation of W(VI) and Mo(VI) with 3-phospho-D-glyceric and 2-phospho-D-glyceric acids. Dalton Trans. 2009;(43):9616-9624.

[2]. Faller LD, et al. Calorimetric studies of the role of magnesium ions in yeast enolase catalysis. Proc Natl Acad Sci U S A. 1974;71(4):1083-1087.

Caution: Product has not been fully validated for medical applications. For research use only.

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