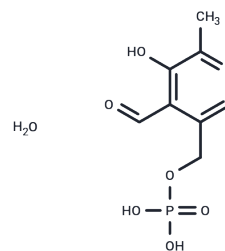


Pyridoxal 5'-phosphate hydrate

Chemical Properties

CAS No. :	853645-22-4
Formula:	C ₈ H ₁₀ NO ₆ P
Molecular Weight:	247.14
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	Pyridoxal 5'-phosphate hydrate (PLP)(1:x), the active form of vitamin B6, is a cofactor for many different enzymes involved in transamination reactions, including mitochondrial cysteine desulfurase, cystathionine γ -synthase, various aminotransferases, and a d-serine dehydratase.
Targets(IC50)	ERK,Beta Amyloid,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 41.6 mg/mL (168.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 4.16 mg/mL (16.83 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0463 mL	20.2314 mL	40.4629 mL
5 mM	0.8093 mL	4.0463 mL	8.0926 mL
10 mM	0.4046 mL	2.0231 mL	4.0463 mL
50 mM	0.0809 mL	0.4046 mL	0.8093 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

Zhu W, et al. Kinetic properties of polymorphic variants and pathogenic mutants in human cystathionine gamma-lyase. *Biochemistry*. 2008 Jun 10;47(23):6226-32.

Steebhorn C, et al. Kinetics and inhibition of recombinant human cystathionine gamma-lyase. Toward the rational control of transsulfuration. *J Biol Chem*. 1999 Apr 30;274(18):12675-84.

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