

Pyridoxal 5'-phosphate monohydrate

Chemical Properties

CAS No. : 41468-25-1

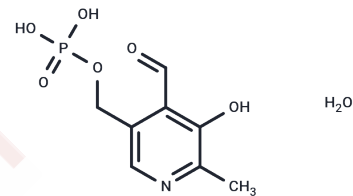
Formula: C₈H₁₂NO₇P

Molecular Weight: 265.16

Storage: Keep away from direct sunlight, Store at low temperature, Store under nitrogen

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	Quinaldic acid is an endogenous metabolite. Quinaldic acid is a metal chelator.
Targets(IC50)	ERK, Beta Amyloid, Others, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 27.5 mg/mL (103.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 4.95 mg/mL (18.67 mM), Solution. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (1.89 mM), Sonication is recommended. <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	3.7713 mL	18.8565 mL	37.7131 mL
5 mM	0.7543 mL	3.7713 mL	7.5426 mL
10 mM	0.3771 mL	1.8857 mL	3.7713 mL
50 mM	0.0754 mL	0.3771 mL	0.7543 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

Carlos Alberto Calderón²spina, Mauricio Orlando Navacmesa. B Vitamins in the nervous system: Current knowledge of the biochemical modes of action and synergies of thiamine, pyridoxine, and cobalamin[J]. Cns Neuroscience & Therapeutics, 2019(2).

Allen G F G , Neergheen V , Oppenheim M , et al. Pyridoxal 5'-phosphate deficiency causes a loss of aromatic l-amino acid decarboxylase in patients and human neuroblastoma cells, implications for aromatic l-amino acid decarboxylase and vitamin B6 deficiency states[J]. Journal of Neurochemistry, 2010, 114(1):87-96.

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