

(R)-Pantetheine

Chemical Properties

CAS No. : 496-65-1

Formula: C₁₁H₂₂N₂O₄S

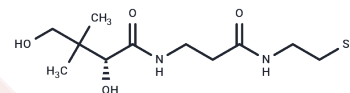
Molecular Weight: 278.37

Storage:

Store at low temperature, Store under nitrogen

Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(R)-Pantetheine (Pantetheine) is the biologically active form of VB5 (pantothenic acid), which occurs in nature in various forms of Pantetheine-containing ligands (PCL). (R)-Pantetheine increases platelet cell membrane fluidity and inhibits platelet aggregation.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 150 mg/mL (538.85 mM), Sonication is recommended. H ₂ O: 50 mg/mL (179.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.85 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	3.5923 mL	17.9617 mL	35.9234 mL
5 mM	0.7185 mL	3.5923 mL	7.1847 mL
10 mM	0.3592 mL	1.7962 mL	3.5923 mL
50 mM	0.0718 mL	0.3592 mL	0.7185 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

Rothmann M, et al. Metabolic perturbation of an essential pathway: evaluation of a glycine precursor of coenzyme A. J Am Chem Soc. 2013 Apr 24;135(16):5962-5.

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