

## D-Pantothenic acid sodium

## Chemical Properties

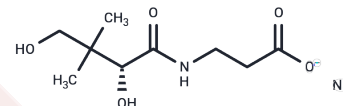
CAS No. : 867-81-2

Formula: C<sub>9</sub>H<sub>16</sub>NNaO<sub>5</sub>

Molecular Weight: 241.22

Storage: 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	D-Pantothenic acid sodium (vitamin B5 sodium), the sodium salt of D-pantothenate, is a derivative of vitamin B5 which is an essential nutrient and plays important roles in the oxidation of fats and carbohydrates and certain amino acids.
Targets(IC50)	Apoptosis,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 60 mg/mL (248.74 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: 1 mg/mL (4.15 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	4.1456 mL	20.728 mL	41.4559 mL
5 mM	0.8291 mL	4.1456 mL	8.2912 mL
10 mM	0.4146 mL	2.0728 mL	4.1456 mL
50 mM	0.0829 mL	0.4146 mL	0.8291 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

Bährle-Rapp M. (2007) Sodium Pantothenate. In: Springer Lexikon Kosmetik und Körperpflege. Springer, Berlin, Heidelberg

Slyshenkov, V.S., Shevalye, A.A. & Moiseenok, A.G. Neurochem. J. (2007) 1: 235. <https://doi.org/10.1134/S18197124070320105>

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