

(±)-Pantothenic acid**Chemical Properties**

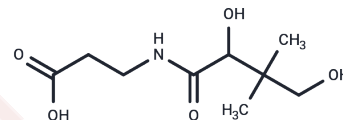
CAS No. : 599-54-2

Formula: C₉H₁₇NO₅

Molecular Weight: 219.24

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	(±)-Pantothenic acid ((±)-Pantothenate), a B-vitamin, is crucial for coenzyme A (CoA) biosynthesis in mammalian cells and protects against valproic acid (VPA)-induced neural tube defects (NTD) in CD-1 mice [1].
Targets(IC50)	Endogenous Metabolite
In vivo	"(±)-Pantothenic acid (3 × 200 mg/kg; IP, single dosage) prevents the reduction in c-Myb and Pim-1 protein levels caused by VPA and lowers the occurrence of neural tube defects (NTDs) to 6.8% in VPA-exposed CD-1 mice, compared to a 23.6% incidence rate in the control group [1]."

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5612 mL	22.8061 mL	45.6121 mL
5 mM	0.9122 mL	4.5612 mL	9.1224 mL
10 mM	0.4561 mL	2.2806 mL	4.5612 mL
50 mM	0.0912 mL	0.4561 mL	0.9122 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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