

DL-Panthenol

Chemical Properties

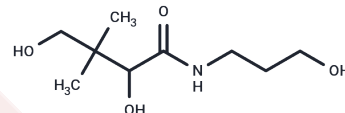
CAS No. : 16485-10-2

Formula: C₉H₁₉NO₄

Molecular Weight: 205.25

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DL-Panthenol (DL-Pantothenyl alcohol) is the alcohol analog of pantothenic acid (vitamin B5) and is thus a provitamin of B5. In organisms, it is quickly oxidized to pantothenate.
Targets(IC50)	Vitamin

Solubility Information

Solubility	DMSO: 45 mg/mL (219.24 mM),Sonication is recommended. Ethanol: 39 mg/mL (190.01 mM),Sonication is recommended. H2O: 38 mg/mL (185.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8721 mL	24.3605 mL	48.7211 mL
5 mM	0.9744 mL	4.8721 mL	9.7442 mL
10 mM	0.4872 mL	2.4361 mL	4.8721 mL
50 mM	0.0974 mL	0.4872 mL	0.9744 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.

Reference

Bissett DL. Clin Dermatol. 2009 Sep-Oct;27(5):435-45.

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