

D-Pantothenic acid hemicalcium salt

Chemical Properties

CAS No. :	137-08-6
Formula:	C ₉ H ₁₇ NO ₅ .1/2Ca
Molecular Weight:	239.28
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	D-Pantothenic acid hemicalcium salt (Calcium pantothenate), a kind of water soluble vitamin, can reduce the patulin content of the apple juice.
Targets(IC50)	Apoptosis,Endogenous Metabolite,ROS
In vitro	In vitro: In human dermal fibroblasts from three different donors, D-Pantothenic acid hemicalcium salt accelerates the wound healing process by increasing the number of migrating cells, their distance and hence their speed. In addition, cell division is increased and the protein synthesis changed

Solubility Information

Solubility	DMSO: 60 mg/mL (250.75 mM),Sonication is recommended. H ₂ O: 92.3 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: 2 mg/mL (8.36 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	4.1792 mL	20.896 mL	41.792 mL
5 mM	0.8358 mL	4.1792 mL	8.3584 mL
10 mM	0.4179 mL	2.0896 mL	4.1792 mL
50 mM	0.0836 mL	0.4179 mL	0.8358 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

Weimann BI,etal.Studies on wound healing: effects of calcium D-pantothenate on the migration, proliferation and protein synthesis of human dermal fibroblasts in culture.Int J Vitam Nutr Res. 1999 Mar;69(2):113-9.

Yazici,etal.Effect of thiamine hydrochloride, pyridoxine hydrochloride and calcium-d-pantothenate on the patulin content of apple juice concentrate.Nahrung. 2002 Aug;46(4):256-7.

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