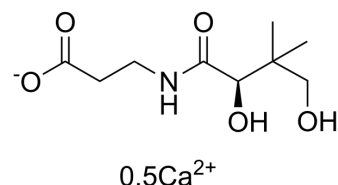


## D-Pantothenic acid hemicalcium salt

<b>Cat. No.:</b>	HY-N0681
<b>CAS No.:</b>	137-08-6
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>16</sub> NO <sub>5</sub> ·1/2Ca
<b>Molecular Weight:</b>	238.27
<b>Target:</b>	Endogenous Metabolite; Apoptosis
<b>Pathway:</b>	Metabolic Enzyme/Protease; Apoptosis
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (419.69 mM; Need ultrasonic)  
 DMSO : ≥ 100 mg/mL (419.69 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.1969 mL	20.9846 mL	41.9692 mL
	5 mM	0.8394 mL	4.1969 mL	8.3938 mL
	10 mM	0.4197 mL	2.0985 mL	4.1969 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (419.69 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (10.49 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (10.49 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

D-Pantothenic acid hemicalcium salt is a vitamin that reduces patulin in apple juice.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### CUSTOMER VALIDATION

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- Environ Sci Pollut Res Int. 2018 Feb;25(4):3765-3774.
  - Int J Mol Sci. 2023 Dec 21, 25(1), 168.
  - Norwegian University of Science and Technology. Department of Clinical and Molecular Medicine. 2021 Oct.

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## REFERENCES

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- [1]. Weimann BI, et al. 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.
- [2]. Serafettin Yazici, et al. Effect of thiamine hydrochloride, pyridoxine hydrochloride and calcium-d-pantothenate on the patulin content of apple juice concentrate. Food / Nahrung Volume 46, Issue 4, pages 256–257, 1 July 2002
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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