



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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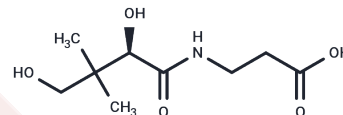
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## D-Pantothenic acid

## Chemical Properties

CAS No. :	79-83-4
Formula:	C <sub>9</sub> H <sub>17</sub> NO <sub>5</sub>
Molecular Weight:	219.24
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	D-Pantothenic acid (vitamin B5) is a water-soluble vitamin ubiquitously found in plants and animal tissues with an antioxidant property. D-Pantothenic acid is a component of coenzyme A (CoA) and a part of the vitamin B2 complex. D-Pantothenic acid is a growth factor and is essential for various metabolic functions, including the metabolism of carbohydrates, proteins, and fatty acids. This vitamin is also involved in the synthesis of cholesterol, lipids, neurotransmitters, steroid hormones, and hemoglobin.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 10 mg/mL (45.61 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	4.5612 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.

## Reference

- Slyshenkov VS, et al. FEBS Lett,2004, 569(1-3), 169-172.  
Wojtczak L, et al. Biofactors,2003, 17(1-4), 61-73.

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