

## Allantoic Acid

## Chemical Properties

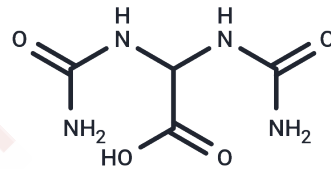
CAS No. : 99-16-1

Formula: C<sub>4</sub>H<sub>8</sub>N<sub>4</sub>O<sub>4</sub>

Molecular Weight: 176.13

Storage: Store at low temperature, Store under nitrogen  
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	Allantoic Acid is a widely occurring endogenous metabolite widely used in biochemical experiments and drug synthesis research.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 10 mg/mL (56.78 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: 1 mg/mL (5.68 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	5.6776 mL	28.3881 mL	56.7762 mL
5 mM	1.1355 mL	5.6776 mL	11.3552 mL
10 mM	0.5678 mL	2.8388 mL	5.6776 mL
50 mM	0.1136 mL	0.5678 mL	1.1355 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

- Taherkhani A, et, al. Metabolomic Analysis of Membranous Glomerulonephritis: Identification of a Diagnostic Panel and Pathogenic Pathways. Arch Med Res. 2019 May; 50(4):159-169.
- Okumura I, et, al. Stereospecificity of conversion of uric acid into allantoinic acid by enzymes of *Candida utilis*. J Biochem. 1976 May;79(5):1013-9.
- Cai HL, et, al. Therapeutic efficacy of atypical antipsychotic drugs by targeting multiple stress-related metabolic pathways. Transl Psychiatry. 2017 May 16; 7(5):e1130.

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