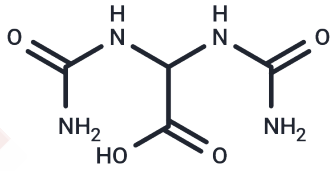
# Data Sheet (Cat.No.T35954)

TargetMol

## Allantoic Acid

### Chemical Properties



CAS No. : 99-16-1

Formula: C4H8N4O4

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.<br>(< 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.<br>*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.* |

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 allantoic acid by enzymes of Canadida 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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