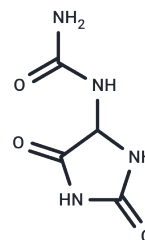


Allantoin

Chemical Properties

CAS No. :	97-59-6
Formula:	C ₄ H ₆ N ₄ O ₃
Molecular Weight:	158.12
Storage:	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	Allantoin (Glyoxyldiureide), a urea hydantoin found in urine and plants, is used in dermatological preparations.
Targets(IC50)	Endogenous Metabolite, Imidazoline Receptor

Solubility Information

Solubility	DMSO: 62.5 mg/mL (395.27 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 (12.65 mM), Sonication is recommended. 10% DMSO+90% Saline: 6.25 mg/mL (39.53 mM), Solution. <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	6.3243 mL	31.6216 mL	63.2431 mL
5 mM	1.2649 mL	6.3243 mL	12.6486 mL
10 mM	0.6324 mL	3.1622 mL	6.3243 mL
50 mM	0.1265 mL	0.6324 mL	1.2649 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

Chen MF, et al. Biomed Res Int. 2014;2014:690135.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481