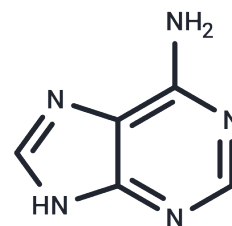


Adenine

Chemical Properties

CAS No. :	73-24-5
Formula:	C ₅ H ₅ N ₅
Molecular Weight:	135.13
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Adenine is a purine-derived nucleobase and one of the four bases of DNA. It is an important chemical component of both DNA and RNA, involved in cellular respiration, the formation of ATP and coenzymes NAD and FAD, as well as protein synthesis. Adenine is commonly used to induce chronic kidney injury models.
Targets(IC50)	Endogenous Metabolite,AChR,DNA/RNA Synthesis

Solubility Information

Solubility	1M HCl: 20 mg/mL (148.01 mM),Sonication is recommended. H ₂ O: < 1 mM (insoluble or slightly soluble) DMSO: 10 mg/mL (74 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	7.4003 mL	37.0014 mL	74.0028 mL
5 mM	1.4801 mL	7.4003 mL	14.8006 mL
10 mM	0.740 mL	3.7001 mL	7.4003 mL
50 mM	0.148 mL	0.740 mL	1.4801 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

Barrett C, et al. Assay Drug Dev Technol. 2006 Dec;4(6):661-9.

Chen J, Li T, Huang D, et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. Journal of Pharmaceutical Analysis. 2023

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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