

Adenine hemisulfate

Chemical Properties

CAS No. : 321-30-2

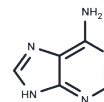
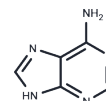
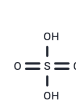
Formula: $2(C_5H_5N_5) \cdot H_2SO_4$

Molecular Weight: 368.33

Store under nitrogen

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	Adenine hemisulfate is a purine-based nucleobase and an essential chemical component of DNA and RNA. It plays a key role in cellular respiration, the formation of ATP and coenzymes such as NAD and FAD, as well as in protein synthesis. It is commonly used to induce animal models of chronic liver and kidney injury and hyperuricemia.
Targets(IC50)	Endogenous Metabolite,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 16 mg/mL (43.44 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 (5.43 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	2.715 mL	13.5748 mL	27.1496 mL
5 mM	0.543 mL	2.715 mL	5.4299 mL
10 mM	0.2715 mL	1.3575 mL	2.715 mL
50 mM	0.0543 mL	0.2715 mL	0.543 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

Ali BH, et al. Cell Physiol Biochem. 2016;38(1):248-57.

Li YH, Tan YF, Cai HD, Zhang JQ. J Pharm Biomed Anal. 2016 May 30;124:236-45.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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