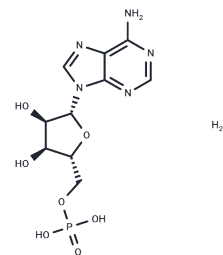


## Adenosine 5'-monophosphate monohydrate

## Chemical Properties

CAS No. :	18422-05-4
Formula:	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> O <sub>7</sub> P·H <sub>2</sub> O
Molecular Weight:	365.24
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Adenosine 5'-monophosphate monohydrate (5'-AMP) , also known as 5'-adenylic acid, is a nucleotide that is used as a monomer in RNA. It is an ester of phosphoric acid and the nucleoside adenosine. Adenosine 5'-monophosphate monohydrate consists of a phosphate group, the sugar ribose, and the nucleobase adenine. As a substituent it takes the form of the prefix adenylyl-.
Targets(IC50)	Endogenous Metabolite,AMPK,Adenosine Receptor,HSV

## Solubility Information

Solubility	DMSO: 31.25 mg/mL (85.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.13 mg/mL (8.57 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

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	1mg	5mg	10mg
1 mM	2.7379 mL	13.6896 mL	27.3793 mL
5 mM	0.5476 mL	2.7379 mL	5.4759 mL
10 mM	0.2738 mL	1.369 mL	2.7379 mL
50 mM	0.0548 mL	0.2738 mL	0.5476 mL

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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

Miao Z, et al. Rheumatol Int. 2013 Aug; 33(8):2085-92.

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

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