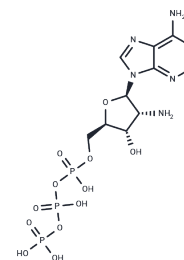


2'-NH<sub>2</sub>-ATP

## Chemical Properties

CAS No. :	61468-88-0
Formula:	C <sub>10</sub> H <sub>17</sub> N <sub>6</sub> O <sub>12</sub> P <sub>3</sub>
Molecular Weight:	506.20
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	2'-NH <sub>2</sub> -ATP (2'-Amino-2'-deoxyadenosine-5'-triphosphate) is an adenosine derivative that functions as a weak competitive inhibitor of ATP, with a K <sub>i</sub> value of 2.3 mM, and is used in nucleic acid labeling.
Targets(IC <sub>50</sub> )	Others
In vitro	2'-NH <sub>2</sub> -ATP (2 mM) was ineffective as a substitute for ATP in the NH <sub>3</sub> -dependent synthesis of cytidine 5'-triphosphate (CTP) mediated by CTP synthase [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9755 mL	9.8775 mL	19.755 mL
5 mM	0.3951 mL	1.9755 mL	3.951 mL
10 mM	0.1976 mL	0.9878 mL	1.9755 mL
50 mM	0.0395 mL	0.1976 mL	0.3951 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

- Armstrong VW, et. al. Interaction of substrate analogues with Escherichia coli DNA-dependent RNA polymerase. Eur J Biochem. 1976 Nov 1;70(1):33-8.
- Faylene A. L. KINETIC STUDIES ON WILD-TYPE AND MUTANT ESCHERICHIA COLI CYTIDINE 5'-TRIPHOSPHATE SYNTHASES AND INHIBITOR DEVELOPMENT. Dalhousie University Halifax, Nova Scotia. 2008 Jul.
- Aström H, et. al. Acidity of secondary hydroxyls in ATP and adenosine analogues and the question of a 2',3'-hydrogen bond in ribonucleosides. J Am Chem Soc. 2004 Nov 17;126(45):14710-1.

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