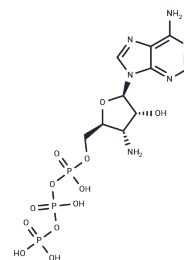


3'-Deoxy-3'-amino-ATP

Chemical Properties

CAS No. :	4209-30-7
Formula:	C ₁₀ H ₁₇ N ₆ O ₁₂ P ₃
Molecular Weight:	506.197
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	'3'-Deoxy-3'-amino-ATP, an ATP analogue, is a highly effective and competitive inhibitor of ATP with a K_i value of 2.3 μ M. Its applications include the synthesis of 3'-Amino-3'-deoxy transfer RNA by integrating it into the 3' terminus of [tRNA-C-C].
Targets(IC50)	ATPase,Others
In vitro	3'-Deoxy-3'-amino-ATP can serve as a substrate for the synthesis of 3'-Amino-3'-deoxy transfer RNA [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.
- Fraser TH, et. al. Synthesis and aminoacylation of 3'-amino-3'-deoxy transfer RNA and its activity in ribosomal protein synthesis. Proc Natl Acad Sci U S A. 1973 Sep;70(9):2671-5.

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