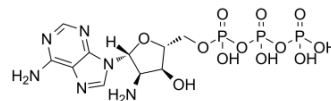


2'-NH₂-ATP

Cat. No.:	HY-131760
CAS No.:	61468-88-0
Molecular Formula:	C ₁₀ H ₁₇ N ₆ O ₁₂ P ₃
Molecular Weight:	506.2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2'-NH ₂ -ATP (2'-Amino-2'-deoxyadenosine-5'-triphosphate), an adenosine derivative, is a weak competitive inhibitor of ATP, with a K _i of 2.3 mM. 2'-NH ₂ -ATP can be used in nucleic acid labeling ^{[1][2][3]} .
In Vitro	2'-NH ₂ -ATP (2 mM) did not replace ATP as a substrate for NH ₃ -dependent cytidine 5'-triphosphate (CTP) formation catalyzed by CTP synthase ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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