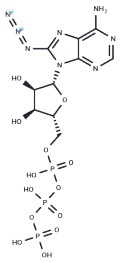
Data Sheet (Cat.No.T40616)

TargetMol

8-Azido-ATP

Chemical Properties



CAS No. : 53696-59-6

Formula: C10H15N8O13P3

Molecular Weight: 548.19

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	8-Azido-ATP is a nucleotide analog that demonstrates photo-reactivity properties. It offers utility in the precise labeling and identification of proteins, particularly those involved in DNA-dependent RNA polymerase activity.
Targets(IC50)	Others,Potassium Channel
In vitro	8-Azido-ATP (azido-ATP) serves as an effective tool in identifying viral RNA polymerase by inhibiting transcriptional activity in rotavirus particles upon UV exposure. This compound reduces viral transcription in a dose-dependent fashion. Additionally, 8-Azido-ATP exhibits a reduced potency in blocking Kir6.2ΔC26 currents compared to ATP, with a half-maximal inhibition (Ki) observed at 2.8 ± 0.4 mM for 8-azido-ATP versus 172 ± 7 mM for ATP, indicating a lower efficacy. The Hill coefficients for 8-azido-ATP and ATP are 0.9 ± 0.2 and 1.3 ± 0.1, respectively, suggesting differences in binding affinity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8242 mL	9.1209 mL	18.2419 mL
5 mM	0.3648 mL	1.8242 mL	3.6484 mL
10 mM	0.1824 mL	0.9121 mL	1.8242 mL
50 mM	0.0365 mL	0.1824 mL	0.3648 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

S Valenzuela, et al. Photoaffinity labeling of rotavirus VP1 with 8-azido-ATP: identification of the viral RNA polymerase. J Virol. 1991 Jul;65(7):3964-7.

K Tanabe, et al. Direct photoaffinity labeling of the Kir6.2 subunit of the ATP-sensitive K+ channel by 8-azido-ATP. J Biol Chem. 1999 Feb 12;274(7):3931-3.

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