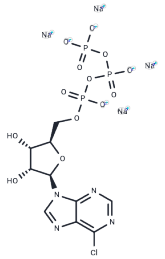
Data Sheet (Cat.No.T83815)

TargetMol

6-Chloropurine riboside-5'-triphosphate sodium

Chemical Properties



CAS No. :

Formula: C10H10ClN4O13P3.4Na

Molecular Weight: 614.54

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	6-Chloropurine riboside-5'-triphosphate serves as both an inhibitor and an activator in biochemical processes. It inhibits the RNA triphosphatase mRNA-capping enzyme subunit β (Cet1; IC50 = 2 μM for the GTPase activity of the S. cerevisiae enzyme), proving its efficacy against the enzyme responsible for the capping of mRNA molecules. Additionally, it acts as a phosphorylated derivative of 6-chloropurine riboside. This compound also activates the E. coli enzyme aspartate carbamoyltransferase (EC50 = 0.76 mM), demonstrating its versatility in modulating enzyme activities. It is instrumental in the synthesis of cytokinins with anticancer properties and a photoclickable form of ATP, highlighting its applications in biochemical synthesis and potential therapeutic uses.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6272 mL	8.1362 mL	16.2723 mL
5 mM	0.3254 mL	1.6272 mL	3.2545 mL
10 mM	0.1627 mL	0.8136 mL	1.6272 mL
50 mM	0.0325 mL	0.1627 mL	0.3254 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.

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