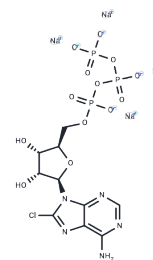


## 8-Chloroadenosine-5'-triphosphate sodium

## Chemical Properties

CAS No. :	793671-47-3
Formula:	C <sub>10</sub> H <sub>11</sub> ClN <sub>5</sub> O <sub>13</sub> P <sub>3</sub> .4Na
Molecular Weight:	629.55
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-Chloroadenosine-5'-triphosphate (8-chloro ATP), a potent metabolite of the anticancer agent 8-chloro cyclic AMP (cAMP) and a nucleotide derivative, is produced through the biotransformation of 8-chloro cAMP into 8-chloroadenosine, followed by mono- and diphosphate intermediates. Accumulating for up to 12 hours after the administration of 8-chloro cAMP or 8-chloroadenosine, 8-chloro ATP inhibits cell growth, diminishes endogenous ATP levels, and reduces RNA synthesis without affecting DNA synthesis in multiple myeloma cells derived from patients. Moreover, it obstructs topoisomerase II- $\alpha$ -mediated relaxation of supercoiled pUC19 DNA at concentrations ranging from 1.5 to 8 mM and decreases topoisomerase II- $\alpha$ -enhanced ATP hydrolysis by 50% at a concentration of 1 mM in K562 human myelocytic leukemia cells.
Targets(IC50)	Others,Topoisomerase

## Solubility Information

Solubility	H <sub>2</sub> O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.5884 mL	7.9422 mL	15.8844 mL
5 mM	0.3177 mL	1.5884 mL	3.1769 mL
10 mM	0.1588 mL	0.7942 mL	1.5884 mL
50 mM	0.0318 mL	0.1588 mL	0.3177 mL

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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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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