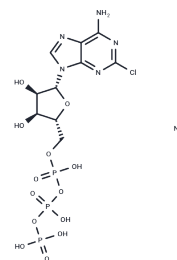


## 2-Chloroadenosine 5-triphosphate sodium

## Chemical Properties

CAS No. :	301334-89-4
Formula:	C <sub>10</sub> H <sub>11</sub> ClN <sub>5</sub> O <sub>13</sub> P <sub>3</sub> Na
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	2-Chloroadenosine 5-triphosphate (2-chloro ATP), an analog of ATP and adenosine nucleotide, functions as an antagonist of the purinergic P2Y1 receptor, inhibiting ADP-induced intracellular calcium mobilization in Jurkat cells with a Ki value of 2.3 μM. Additionally, 2-chloro ATP acts as an agonist of purinergic P2X receptors, demonstrated by inducing inward currents in HEK293 cells expressing either human bladder smooth muscle or rat PC12 receptor forms, with EC50 values of 0.5 and 2.5 μM, respectively. It also triggers relaxation in precontracted isolated guinea pig taenia caeci strips in a concentration-dependent fashion. Furthermore, 2-chloro ATP has been employed in research to investigate the substrate specificity of cyclic nucleotide-dependent protein kinases, including protein kinase A (PKA) and PKG.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
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

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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