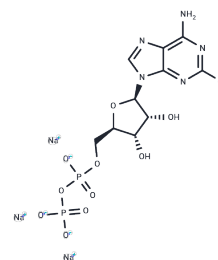


2-Chloroadenosine-5'-O-diphosphate sodium

Chemical Properties

CAS No. :	82927-78-4
Formula:	C ₁₀ H ₁₁ ClN ₅ O ₁₀ P ₂ .3Na
Molecular Weight:	527.59
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'-O-diphosphate, a purine nucleotide adenosine 5'diphosphate (ADP) derivative, demonstrates multiple biological activities. It promotes aggregation and inhibits cyclic AMP (cAMP) production, triggered by prostaglandin E2 (PGE2), in a concentration-dependent manner within isolated human platelet-rich plasma. Additionally, this compound facilitates the relaxation of precontracted isolated guinea pig taenia coli strips (pD ₂ = 6.74) and reduces arterial blood pressure in rats. Moreover, 2-Chloroadenosine-5'-O-diphosphate significantly inhibits the ATPase activity of mortalin, a member of the heat shock protein 70 (Hsp70) family, with an apparent K _i of 45.05 μM for the human enzyme.
Targets(IC50)	Others,HSP,AChR

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.8954 mL	9.4771 mL	18.9541 mL
5 mM	0.3791 mL	1.8954 mL	3.7908 mL
10 mM	0.1895 mL	0.9477 mL	1.8954 mL
50 mM	0.0379 mL	0.1895 mL	0.3791 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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