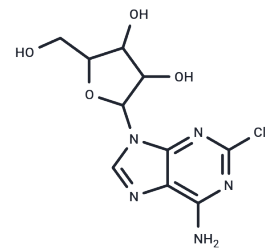


2-Chloroadenosine

Chemical Properties

CAS No. :	146-77-0
Formula:	C ₁₀ H ₁₂ ClN ₅ O ₄
Molecular Weight:	301.69
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 (CADO) is a metabolically stable analog of adenosine that binds to adenosine A1, A2A, and A3 receptors(Ki:300, 80, and 1,900 nM, respectively)
Targets(IC50)	Apoptosis,Nucleoside Antimetabolite/Analog,Adenosine Receptor
In vivo	2-Chloroadenosine(CADO) has been used to activate adenosine receptors in the thalamus, generating anticonvulsive activity in a rat model of generalized seizures.?It has also been used to induce bronchoconstrictor effects in a guinea pig model of asthma and to study cardiovascular responses in normotensive and hypertensive rats

Solubility Information

Solubility	DMSO: 45 mg/mL (149.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.63 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3147 mL	16.5733 mL	33.1466 mL
5 mM	0.6629 mL	3.3147 mL	6.6293 mL
10 mM	0.3315 mL	1.6573 mL	3.3147 mL
50 mM	0.0663 mL	0.3315 mL	0.6629 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

Ates N , Ilbay G , Sahin D . Suppression of generalized seizures activity by intrathalamic 2-chloroadenosine application[J]. Experimental Biology and Medicine, 2005, 230(7):501-505.

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