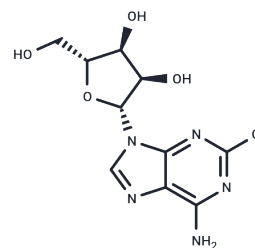


2-Chloroadenosine

Chemical Properties

CAS No. :	146-77-0
Formula:	C ₁₀ H ₁₂ ClN ₅ O ₄
Molecular Weight:	301.69
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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)	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), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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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