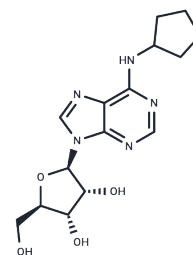


N6-Cyclopentyladenosine

Chemical Properties

CAS No. :	41552-82-3
Formula:	C ₁₅ H ₂₁ N ₅ O ₄
Molecular Weight:	335.36
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	N6-Cyclopentyladenosine (CPA) is a selective agonist of the adenosine A1 receptor, mimicking its action with K _i values of 2.3 nM, 790 nM, and 43 nM for human A1, A2A, and A3 receptors, respectively. CPA is used to modulate cellular signaling, neurotransmission, and other biological processes.
Targets(IC50)	Adenosine Receptor

Solubility Information

Solubility	DMSO: 7.5 mg/mL (22.36 mM), Sonication is recommended. H ₂ O: 2 mg/mL (5.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9819 mL	14.9094 mL	29.8187 mL
5 mM	0.5964 mL	2.9819 mL	5.9637 mL
10 mM	0.2982 mL	1.4909 mL	2.9819 mL
50 mM	0.0596 mL	0.2982 mL	0.5964 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

- Klotz KN, et al. Adenosine receptors and their ligands. Naunyn Schmiedeberg's Arch Pharmacol. 2000 Nov;362(4-5):382-91.
- Soliño M, et al. Adenosine A1 receptor: A neuroprotective target in light induced retinal degeneration. PLoS One. 2018 Jun 18;13(6):e0198838.

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