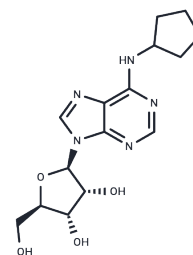


N6-Cyclopentyladenosine

Chemical Properties

CAS No. :	41552-82-3
Formula:	C15H21N5O4
Molecular Weight:	335.36
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	N6-Cyclopentyladenosine (CPA) is a selective agonist of the adenosine A1 receptor, mimicking its action with Ki 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)	Apoptosis, Adenosine Receptor

Solubility Information

Solubility	DMSO: 7.5 mg/mL (22.36 mM), Sonication is recommended. H2O: 2 mg/mL (5.96 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: 1 mg/mL (2.98 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	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.

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

Klotz KN, et al. Adenosine receptors and their ligands. Naunyn Schmiedebergs 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481