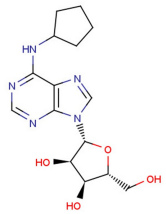
Data Sheet (Cat.No.T16263)

TargetMol
A DRUG SCREENING EXPERT

N6-Cyclopentyladenosine

Chemical Properties



CAS No.:	41552-82-3
Formula:	C15H21N5O4
Molecular Weight:	335.36
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	N6-Cyclopentyladenosine (CPA) is a selective agonist of Adenosine A1 receptor (Ki: 2.3 nM, 790 nM and 43 nM for human A1, A2A and A3 receptors, respectively).
Targets(IC_{50})	A1: (ki)2.3 nM A2A: 790 nM(ki) A3: 43 nM(ki)

Solubility Information

Solubility	DMSO: 12.5 mg/mL (37.27 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.982 mL	14.909 mL	29.819 mL
5 mM	0.596 mL	2.982 mL	5.964 mL
10 mM	0.298 mL	1.491 mL	2.982 mL
50 mM	0.06 mL	0.298 mL	0.596 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Klotz KN, et al. Adenosine receptors and their ligands. Naunyn Schmiedebergs Arch Pharmacol. 2000 Nov;362(4-5):382-91.
2. 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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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481