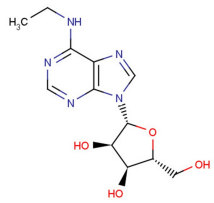
Data Sheet (Cat.No.T12161)

TargetMol
A DRUG SCREENING EXPERT

N6-Ethyladenosine

Chemical Properties



CAS No.:	14357-08-5
Formula:	C12H17N5O4
Molecular Weight:	295.29
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	N6-Ethyladenosine is an adenosine derivative, acts as an agonist of Adenosine receptor(hA1AR and hA3AR with Kis of 4.9 and 4.7 nM , respectively).
Targets(IC_{50})	hA1AR: ki:4.9 nM hA3AR: 4.7 nM (ki)
In vitro	N6-Ethyladenosine exhibits more selectivity at hA1AR and hA3AR over hA2AR with Ki of 8900±770 nM[1].

Solubility Information

Solubility	DMSO: 83.33 mg/mL (282.20 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.387 mL	16.933 mL	33.865 mL
5 mM	0.677 mL	3.387 mL	6.773 mL
10 mM	0.339 mL	1.693 mL	3.387 mL
50 mM	0.068 mL	0.339 mL	0.677 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. Kimand SK, et al. Three-dimensional quantitative structure-activity relationship of nucleosides acting at the A3 adenosine receptor: analysis of binding and relative efficacy. J Chem Inf Model. 2007 May-Jun;47(3):1225-33. Epub 2007 Mar 6.

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