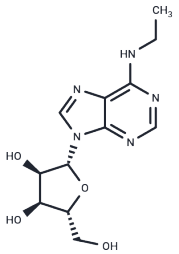
Data Sheet (Cat.No.T12161)

TargetMol

N6-Ethyladenosine

Chemical Properties



CAS No. : 14357-08-5

Formula: C12H17N5O4

Molecular Weight: 295.29

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-Ethyladenosine, an adenosine derivative, acts as an agonist of Adenosine receptors (hA1AR and hA3AR) with Ki values of 4.9 nM and 4.7 nM, respectively.
Targets(IC50)	Adenosine Receptor
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 (282.2 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: 3.3 mg/mL (11.18 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3865 mL	16.9325 mL	33.865 mL
5 mM	0.6773 mL	3.3865 mL	6.773 mL
10 mM	0.3387 mL	1.6933 mL	3.3865 mL
50 mM	0.0677 mL	0.3387 mL	0.6773 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

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.