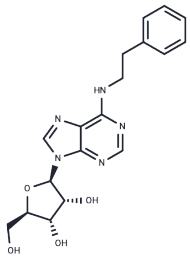
Data Sheet (Cat.No.T12163)

TargetMol

N6-(2-Phenylethyl)adenosine

Chemical Properties



CAS No. : 20125-39-7

Formula: C18H21N5O4

Molecular Weight: 371.39

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-(2-Phenylethyl)adenosine (N6-Phenethyladenosine) is an adenosine derivative and adenosine receptor agonist with Ki values of 11.8 nM for rat A1 receptors and 30.1 nM for human A1 receptors.
Targets(IC50)	Adenosine Receptor
In vitro	The Ki value of human A3 is 0.63 nM. In CHO cells, N6-(2-Phenylethyl)adenosine inhibits A2 with IC50s of 560 nM and 2250 nM for rat and human[1].

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 95 mg/mL (255.8 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 (8.89 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	2.6926 mL	13.4629 mL	26.9259 mL
5 mM	0.5385 mL	2.6926 mL	5.3852 mL
10 mM	0.2693 mL	1.3463 mL	2.6926 mL
50 mM	0.0539 mL	0.2693 mL	0.5385 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

Tchilibon S, et al. Exploring distal regions of the A3 adenosine receptor binding site: sterically constrained N6-(2-phenylethyl)adenosine derivatives as potent ligands. Bioorg Med Chem. 2004 May 1;12(9):2021-34.