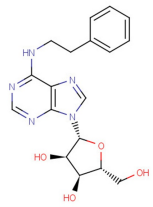
Data Sheet (Cat.No.T12163)

TargetMol
A DRUG SCREENING EXPERT

N6-(2-Phenylethyl)adenosine

Chemical Properties



CAS No.:	20125-39-7
Formula:	C18H21N5O4
Molecular Weight:	371.39
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	N6-(2-Phenylethyl)adenosine (N6-Phenethyladenosine) is a potent agonist of adenosine receptors (AR) (rat A1AR, human A1AR and hA3AR with Ki values of 11.8 nM, 30.1 nM, 0.63 nM, respectively).
Targets(IC_{50})	rA1AR: ki:11.8 nM hA1AR: 30.1 nM (ki) hA3AR(ki): 0.63 nM (ki)
In vitro	N6-(2-Phenylethyl)adenosine a rA2AR and hA2AR inhibitor (with IC50 of 560 nM and 2250 nM, in CHO cells)[1].

Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.693 mL	13.463 mL	26.926 mL
5 mM	0.539 mL	2.693 mL	5.385 mL
10 mM	0.269 mL	1.346 mL	2.693 mL
50 mM	0.054 mL	0.269 mL	0.539 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. 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.

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