N-[(4-Aminophenyl)methyl]adenosine

Cat. No.: HY-100130

CAS No.: 95523-13-0

Molecular Formula: $C_{17}H_{20}N_6O_4$

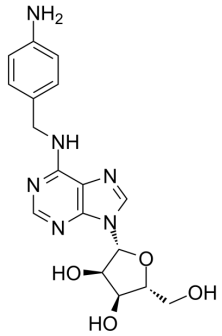
Molecular Weight: 372.38

Target: Adenosine Receptor

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (26.85 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6854 mL	13.4271 mL	26.8543 mL
	5 mM	0.5371 mL	2.6854 mL	5.3709 mL
	10 mM	0.2685 mL	1.3427 mL	2.6854 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-[(4-Aminophenyl)methyl]adenosine is a adenosine receptor inhibitor, with Ki of 29 nM for Rat ecto-5′-Nucleotidase.IC50 value: 29.0 ± 1.7 nM (Ki) Target: Adenosine Receptor

REFERENCES

[1]. Bhattarai S, et al. α,β-Methylene-ADP (AOPCP) Derivatives and Analogues: Development of Potent and Selective ecto-5'-Nucleotidase (CD73) Inhibitors. J Med Chem.

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[2]. Chen JB, et al. Design and synthesis of novel dual-action compounds targeting the adenosine A(2A) receptor and adenosine transporter for neuroprotection. ChemMedChem. 2011 Aug 1;6(8):1390-400.

[3]. Zhu Z, et al. Constrained NBMPR analogue synthesis, pharmacophore mapping and 3D-QSAR modeling of equilibrative nucleoside transporter 1 (ENT1) inhibitory activity. Bioorg Med Chem. 2008 Apr 1;16(7):3848-65.

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