N6-(2-Phenylethyl)adenosine

Cat. No.: HY-101854 CAS No.: 20125-39-7 Molecular Formula: $C_{18}H_{21}N_5O_4$ Molecular Weight: 371.39

Target: Adenosine Receptor Pathway: GPCR/G Protein

Storage: Powder -20°C 3 years

2 years

In solvent -80°C 2 years

> -20°C 1 year

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (269.26 mM; Need ultrasonic)

H₂O: < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

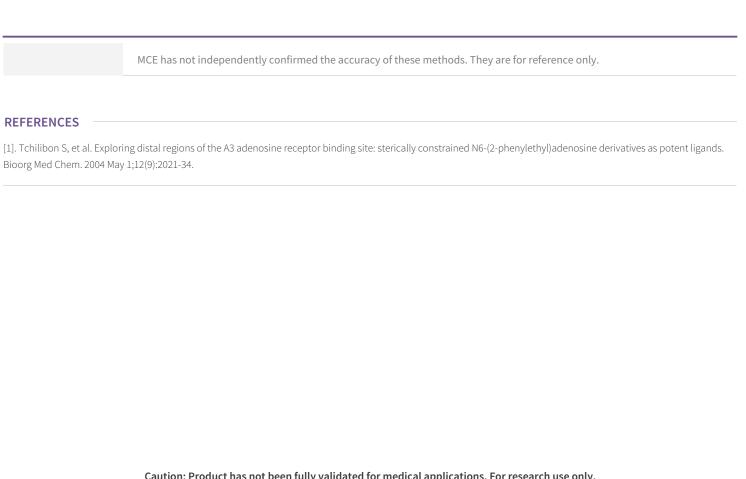
Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	N6-(2-Phenylethyl)adenosine (N6-Phenethyladenosine), an adenosine derivative, is a potent adenosine receptors (AR) agonist with K_i values of 11.8 nM, 30.1 nM, 0.63 nM for rat A_1AR , human A_1AR and A_3AR , respectively ^[1] .
IC ₅₀ & Target	Ki: 11.8 nM (rA $_1$ AR), 30.1 nM (hA $_1$ AR) and 0.63 nM (hA $_3$ AR) $^{[1]}$
In Vitro	$N6-(2-Phenylethyl) adenosine (N6-Phenethyladenosine) inhibits rA_2AR (IC_{50}=560 \text{ nM}), hA_2AR (IC_{50}=2250 \text{ nM}) in CHO cells [1].$



Caution: Product has not been fully validated for medical applications. For research use only.

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