N6-(4-Hydroxybenzyl)adenosine

Cat. No.: HY-18775

CAS No.: 110505-75-4

Molecular Formula: $C_{17}H_{19}N_5O_5$

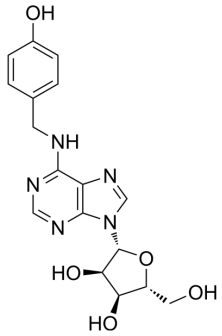
Molecular Weight: 373.36

Target: P2Y 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 : ≥ 100 mg/mL (267.84 mM)

H_2O : 1 mg/mL (2.68 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.6784 mL	13.3919 mL	26.7838 mL
5 mM	0.5357 mL	2.6784 mL	5.3568 mL
10 mM	0.2678 mL	1.3392 mL	2.6784 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 (6.70 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.70 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N6-(4-Hydroxybenzyl)adenosine is a inhibitor of platelet aggregation induced in vitro by collagen and their activity range was demonstrated (IC50: 6.77-141 μM). IC50 value: 6.77-141 μMTarget: P2Y12receptorAnti-aggregation activity of N6-(4-Hydroxybenzyl)adenosine could involve an interaction with the P2Y12receptor binding site.

REFERENCES

[1]. Vistoli G, et al. Naturally occurring N(6)-substituted adenosines (cytokinin ribosides) are in vitro inhibitors of platelet aggregation: an in silico evaluation of their interaction with the P2Y(12) receptor. Bioorg Med Chem Lett. 2014 Dec 15;24(24):5652-5655.

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