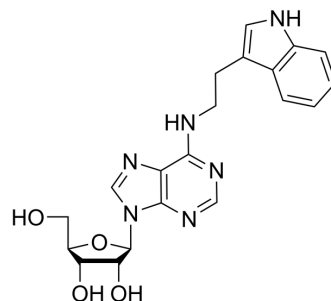


A2AR-agonist-1

Cat. No.:	HY-18776		
CAS No.:	41552-95-8		
Molecular Formula:	C ₂₀ H ₂₂ N ₆ O ₄		
Molecular Weight:	410.43		
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 : 100 mg/mL (243.65 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4365 mL	12.1823 mL	24.3647 mL
	5 mM	0.4873 mL	2.4365 mL	4.8729 mL
	10 mM	0.2436 mL	1.2182 mL	2.4365 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

A2AR-agonist-1 is a potent A2AR and ENT1 agonist with K_i of 4.39 and 3.47 for A2AR and ENT1. IC₅₀ value: 4.39 and 3.47 (K_i)
[1]Target: A2AR and ENT1A2AR-agonist-1 is a novel dual-action compound, targeting the Adenosine A2A Receptor and Adenosine Transporter for Neuroprotection.[1]

CUSTOMER VALIDATION

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- Int Immunopharmacol. 2022 Dec 16;114:109567.

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REFERENCES

- [1]. 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):1390-1400.
- [2]. Lin Yun-Lian, et al. Dual-action compounds targeting adenosine A2A receptor and adenosine transporter for prevention and treatment of neurodegenerative diseases. From PCT Int. Appl. (2012), WO 2012064340 A1 20120518.
- [3]. Chen, Chih-Cheng, et al. Methods and compositions for treating pain. From PCT Int. Appl. (2013), WO 2013120078 A1 20130815.
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Caution: Product has not been fully validated for medical applications. For research use only.

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