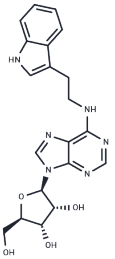
Data Sheet (Cat.No.T10212)

TargetMol

A2AR-agonist-1

Chemical Properties



CAS No. : 41552-95-8

Formula: C20H22N6O4

Molecular Weight: 410.43

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	A2AR-agonist-1 (N-(2-(1H-Indol-3-yl)ethyl)adenosine) is a potent A2AR and ENT1 agonist (Ki: 4.39 and 3.47 for A2AR and ENT1. It targets the Adenosine A2A Receptor and Adenosine Transporter for Neuroprotection.
Targets(IC50)	Adenosine Receptor

Solubility Information

Solubility	DMSO: 90 mg/mL (219.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0487 mL	0.2436 mL	0.4873 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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.

Chen, Chih-Cheng, et al. Methods and compositions for treating pain. From PCT Int. Appl. (2013), WO 2013120078 A1 20130815.

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