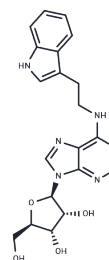


## A2AR-agonist-1

## Chemical Properties

CAS No. :	41552-95-8
Formula:	C <sub>20</sub> H <sub>22</sub> N <sub>6</sub> O <sub>4</sub>
Molecular Weight:	410.43
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	A2AR-agonist-1 (N-(2-(1H-Indol-3-yl)ethyl)adenosine) is a potent A2AR and ENT1 agonist (K <sub>i</sub> : 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 (219.28 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8.04 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### 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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