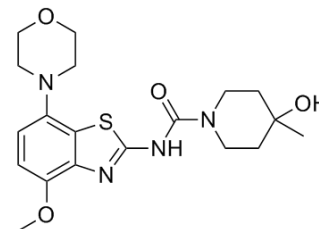


Tozadenant

Cat. No.:	HY-10995		
CAS No.:	870070-55-6		
Molecular Formula:	C ₁₉ H ₂₆ N ₄ O ₄ S		
Molecular Weight:	406.5		
Target:	Adenosine Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (123.00 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.4600 mL	12.3001 mL	24.6002 mL
		5 mM		0.4920 mL	2.4600 mL	4.9200 mL
10 mM			0.2460 mL	1.2300 mL	2.4600 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 (6.15 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.15 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tozadenant is an adenosine A _{2A} receptor antagonist, with K _i of 11.5 nM on human A _{2A} and 6 nM on rhesus A _{2A} .
IC ₅₀ & Target	Ki: 6 nM (Rhesus A _{2A}), 11.5 nM (Human A _{2A})
In Vivo	¹⁸ F-MNI-444 regional uptake is consistent with A _{2A} receptor distribution in the brain. Selectivity is demonstrated by dose-dependent blocking by tozadenant (1.5, 10.5 mg/kg) and preladenant ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Molecules. 2019 Apr 2;24(7):1295 .
- PLoS One. 2016 Nov 11;11(11):e0166415.
- PLoS One. 2016 Nov 11;11(11):e0166415.

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REFERENCES

[1]. Olivier Barret, et al. Adenosine 2A Receptor Occupancy by Tozadenant and Preladenant in Rhesus Monkeys. J Nucl Med. 2014 Oct;55(10):1712-8.

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

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