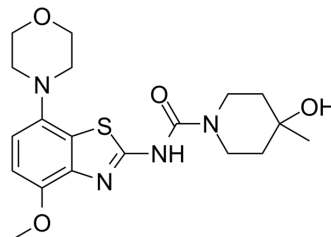


Tozadenant

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	2 years
		-20°C	1 year



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	<ol style="list-style-type: none"> 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 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 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} .
IC₅₀ & 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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