## JNJ-42253432

MedChemExpress

Cat. No.:	HY-123481				
CAS No.:	1428327-35	-8			
Molecular Formula:	$C_{_{28}}H_{_{38}}N_{_4}O$				
Molecular Weight:	446.63				
Target:	P2X Receptor				
Pathway:	Membrane Transporter/Ion Channel				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (2	g/mL (223.90 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2390 mL	11.1949 mL	22.3899 mL		
		5 mM	0.4478 mL	2.2390 mL	4.4780 mL		
		10 mM	0.2239 mL	1.1195 mL	2.2390 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent of Solubility: ≥ 2.5 m	Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution						
	3. Add each solvent o Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% cor g/mL (5.60 mM); Clear solution	n oil				

DIOLOGICALACITY						
Description	JNJ-42253432 is a CNS-penetrant, high-affinity and orally active P2X7 antagonist, with pK <sub>i</sub> values of 9.1 and 7.9 for rat and human P2X7 channels, respectively <sup>[1]</sup> .					
In Vivo	When dosed in rats, JNJ-42253432 occupied the brain P2X7 channel with an ED <sub>50</sub> of 0.3 mg/kg, corresponding to a mean plasma concentration of 42 ng/ml. JNJ-42253432 also increased serotonin levels in the rat brain, which is due to antagonism of the serotonin transporter (SERT) resulting in an ED <sub>50</sub> of 10 mg/kg for SERT occupancy <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

# Product Data Sheet

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### REFERENCES

[1]. Brian Lord, et al. Pharmacology of a novel central nervous system-penetrant P2X7 antagonist JNJ-42253432. J Pharmacol Exp Ther. 2014 Dec;351(3):628-41.

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

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