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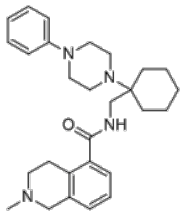
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JNJ-42253432
Cat. No.	:	PC-60767
CAS No.	:	1428327-35-8
Molecular Formula	:	$C_{28}H_{38}N_4O$
Molecular Weight	:	446.639
Target	:	P2X Receptor
Solubility	:	10 mM in DMSO



Biological Activity

JNJ-42253432 is a potent, selective, CNS-penetrant **P2X7** antagonist with pKi of 9.1 and 7.9 for rat and huamn P2X7 channel, respectively.
JNJ-42253432 does not block calcium flux via human P2X1, P2X2, P2X3, P2X2/P2X3, and P2X4 at 10 uM.
JNJ-42253432 attenuates both ATP- and Bz-ATP-induced currents from hP2X7-1321N1 cells with similar potencies (pEC50=7.0).
JNJ-42253432 blocks the release of IL-1β induced by Bz-ATP in freely moving rat brain, also increases serotonin levels.
JNJ-42253432 attenuates amphetamine-induced hyperactivity in vivo.

References

Lord B, et al. ***J Pharmacol Exp Ther.*** 2014 Dec;351(3):628-41.

Amhaoul H, et al. ***Neuropharmacology.*** 2016 Jun;105:175-185.

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