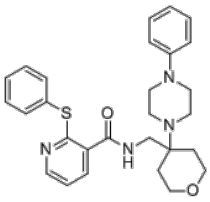
ProbeChem®
Expedite Your Scientific Research

WWW.PROBECHEM.COM

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JNJ-47965567
Cat. No.	:	PC-63425
CAS No.	:	1428327-31-4
Molecular Formula	:	$C_{28}H_{32}N_4O_2S$
Molecular Weight	:	488.65
Target	:	P2X Receptor
Solubility	:	10 mM in DMSO



Biological Activity

JNJ-47965567 is a potent, selective, centrally permeable **P2X7** receptor antagonist with pKi of 7.9 and 8.7 for human and rat P2X7, respectively.
JNJ-47965567 attenuates IL-1β release with pEC50 of 6.7 (human blood), 7.5 (human monocytes) and 7.1 (rat microglia).
JNJ-47965567 exhibits target engagement in rat brain with brain EC50 of 78 ± 19 ng/ml, as well as functional block of Bz-ATP induced IL-1β release.
JNJ-47965567 attenuateas amphetamine-induced hyperactivity and exhibits modest, yet significant efficacy in the rat model of neuropathic pain.

References

Bhattacharya A, et al. ***Br J Pharmacol.*** 2013 Oct;170(3):624-40.

Jimenez-Pacheco A, et al. ***J Neurosci***. 2016 Jun 1;36(22):5920-32.

Letavic MA, et al. ***ACS Med Chem Lett***. 2013 Mar 12;4(4):419-22.

Rodriguez-Alvarez N, et al. ***Neuropharmacology.*** 2017 Apr;116:351-363.

E-mail: tech@probechem.com