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## JNJ-47965567

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ALTERNATE NAMES:	N-[[4-(4-phenylpiperazin-1-yl)oxan-4-yl]methyl]-2-phenylsulfanylpyridine-3-carboxamide; N-((4-(4-phenylpiperazin-1-yl)tetrahydro-2H-pyran-4-yl)methyl)-2-(phenylthio)nicotinamide; 2-(Phenylthio)-N- [[tetrahydro-4-(4-phenyl-1-piperazinyl)-2H-pyran-4-yl]methyl]-3-pyridinecarboxamide; P2X Antagonist III
CATALOG #:	B2972-5 5 mg B2972-25 25 mg
STRUCTURE:	
S O C	
MOLECULAR FORMULA:	$\sum_{28} O_{28} H_{32} N_4 O_2 S$
MOLECULAR WEIGHT:	488.64
CAS NUMBER:	1428327-31-4
APPEARANCE:	Solid
PURITY:	98%
SOLUBILITY:	~30 mg/ml in DMSO and DMF ~12.5 mg/ml in Ethanol
DESCRIPTION:	JNJ-47965567 is a potent and selective antagonist of the purinergic receptor P2X subtype 7 (P2X7), a ligand-gated ion channel. Activation of P2X receptors by BzATP induces calcium flux. JNJ-47965567 attenuates Bz-ATP induced calcium flux in 1321N1 astrocytoma cells transfected with the recombinant P2X7 proteins with $plC_{50}$ values of 8.3, 7.5 and 7.2 for human, mouse and rat receptors respectively. JNJ-47965567 (30 mg/kg for 5 days) significantly reduces spontaneous seizures in epileptic mice even after treatment is stopped.
STORAGE TEMPERATURE:	-20ºC. Protect from air. Store under desiccating conditions.
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.
REFERENCES:	<ol> <li>Jimenez-Pacheco, A., Diaz-Hernandez, M., Arribas-Blázquez, M., et al. Transient P2X7 receptor antagonism produces lasting reductions in spontaneous seizures and gliosis in experimental temporal lobe epilepsy. J. Neurosci. 36(22), 5920-5932 (2016).</li> <li>Bhattacharya, A., Wang, Q., Ao, H., et al. Pharmacological characterization of a novel centrally permeable P2X7 receptor antagonist: JNJ-47965567. Br. J. Pharmacol. 170(3), 624-640 (2013).</li> </ol>

## **RELATED PRODUCTS:**

Evans Blue Tetrasodium (Cat. No. 2586) Triclopidine hydrochloride (Cat. No. B1141) Suramin Hexasodium Salt (Cat. No. 1874) BPTU (Cat. No. B2323) KN-62 (Cat. No. 2495)

## DISCLAIMER:

FOR RESEARCH USE ONLY! Not to be used on humans.