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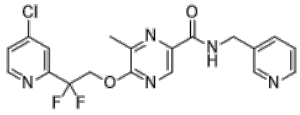
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JNJ-78911118
Cat. No.	:	PC-24631
CAS No.	:	
Molecular Formula	:	$C_{19}H_{16}ClF_2N_5O_2$
Molecular Weight	:	419.82
Target	:	iGluR
Solubility	:	10 mM in DMSO



Biological Activity

JNJ-78911118 is a potent, centrally-penetrant, selective antagonist of **GluN2A**-containing NMDA receptors, blocks GluN1/2AR-induced calcium flux with IC50 of 46 nM.
JNJ-78911118 acts selectively as a negative allosteric modulator of both di- and triheteromeric GluN2A receptors.
JNJ-78911118 shows no activity against GluN1/2B and GluN1/2C receptors and no meaningful activity or GluN1/2D receptors.
JNJ-78911118 binds to the GluN1/2A interface and is a NAM of glycine activity.
JNJ-78911118 produces dose-dependent exposures in plasma and brain, as well as dose-dependent hippocampal receptor occupancy in rats.
JNJ-78911118 produced concentration-dependent receptor occupancy, increased prefrontal cortex monoamine levels in wild type, but not in GluN2A knockout mice, and blocked theta burst induced LTP in the hippocampus.
JNJ-78911118 produced increases in dendritic complexity and synapse number in vitro, and increased mEPSC frequency in rat cortical neurons in vivo.

References

Lord B, et al. ***Br J Pharmacol***. 2025 May 13. doi: 10.1111/bph.70069.

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