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Data Sheet

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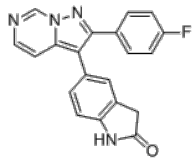
Product Name	:	JNJ-61432059
Cat. No.	:	PC-20320
CAS No.	:	2035814-59-4
Molecular Formula	:	$C_{20}H_{13}FN_4O$
Molecular Weight	:	344.35
Target	:	iGluR
Solubility	:	10 mM in DMSO



Biological Activity

JNJ-61432059 is a potent, **TARPγ-8** selective **AMPAR** negative modulator with pIC50 of 9.7 in FLIPR assay using HEK-293 cells expressing human GluA1o-γ-8.
JNJ-61432059 does not inhibit glutamate-induced calcium-flux in heterologous cells that coexpressed AMPARs with any TARP other than γ-8 at 10 uM.
JNJ-61432059 also shows no activity against a panel of 52 receptors, ion channels, and transporters using radioligand displacement assays.
JNJ-61432059 demonstrates robust target engagement observed in vivo, shows protection in the corneal kindling model with ED50 of 1.3 mg/kg.
JNJ-61432059 (5 mg/kg, p.o.) demonstrates anticonvulsant efficacy and seizure protection in corneal kindling and pentylenetetrazole (PTZ) anticonvulsant models.

References

Savall BM, et al. ***ACS Med Chem Lett.*** 2018 Dec 26;10(3):267-272.

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