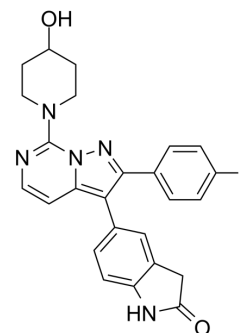


## JNJ-61432059

<b>Cat. No.:</b>	HY-111751		
<b>CAS No.:</b>	2035814-50-5		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>22</sub> FN <sub>5</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	443		
<b>Target:</b>	iGluR		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (112.87 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
1 mM			2.2573 mL	11.2867 mL	22.5734 mL
5 mM			0.4515 mL	2.2573 mL	4.5147 mL
10 mM			0.2257 mL	1.1287 mL	2.2573 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (4.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.70 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

JNJ-61432059 is an oral active and selective negative modulator of AMPAR associated with trans-membrane AMPAR regulatory protein (TARP)  $\gamma$ -8, with a pIC<sub>50</sub> of 9.7 for GluA1/ $\gamma$ -8. Exhibits time- and dose-dependent AMPAR/ $\gamma$ -8 receptor occupancy in mouse hippocampus, resulting in robust seizure protection in corneal kindling and pentylenetetrazole (PTZ) anticonvulsant models<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

pIC<sub>50</sub>: 9.7 (AMPA)<sup>[1]</sup>.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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