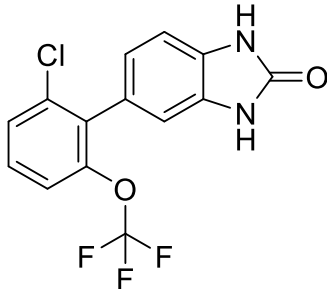


# Product data sheet



MedKoo Cat#: 555284 Name: JNJ-55511118 CAS: 2036081-86-2 Chemical Formula: C <sub>14</sub> H <sub>8</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>2</sub> Exact Mass: 328.0226 Molecular Weight: 328.6752	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

## 1. Product description:

JNJ-55511118 is a high affinity and selective negative modulator of AMPA receptors containing TARP- $\gamma$ 8 (K<sub>i</sub> = 26 nM). JNJ-55511118 had excellent pharmacokinetic properties and achieved high receptor occupancy following oral administration. JNJ-55511118 showed strong, dose-dependent inhibition of neurotransmission within the hippocampus, and a strong anticonvulsant effect.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	32.87	100.0
Ethanol	32.87	100.0

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.04 mL	15.21 mL	30.43 mL
5 mM	0.61 mL	3.04 mL	6.09 mL
10 mM	0.30 mL	1.52 mL	3.04 mL
50 mM	0.06 mL	0.30 mL	0.61 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

1. Hoffman JL, Faccidomo S, Saunders BL, Taylor SM, Kim M, Hodge CW. Inhibition of AMPA receptors (AMPA receptors) containing transmembrane AMPAR regulatory protein  $\gamma$ -8 with JNJ-55511118 shows preclinical efficacy in reducing chronic repetitive alcohol self-administration. *Alcohol Clin Exp Res.* 2021 Jul;45(7):1424-1435. doi: 10.1111/acer.14639. Epub 2021 Jun 22. PMID: 34086361; PMCID: PMC8336716.

2. Maher MP, Wu N, Ravula S, Ameriks MK, Savall BM, Liu C, Lord B, Wyatt RM, Matta JA, Dugovic C, Yun S, Ver Donck L, Steckler T, Wickenden AD, Carruthers NI, Lovenberg TW. Discovery and Characterization of AMPA Receptor Modulators Selective for TARP- $\gamma$ 8. *J Pharmacol Exp Ther.* 2016 May;357(2):394-414. doi: 10.1124/jpet.115.231712. Epub 2016 Mar 17. PMID: 26989142.

## 7. Bioactivity

Biological target:

High affinity and selective negative modulator of AMPA receptors containing TARP- $\gamma$ 8.

# Product data sheet



In vitro activity

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TBD

In vivo activity

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Oral administration of JNJ-55511118 significantly reduced alcohol-reinforced responding in male mice (Figure 3A–E).

Reference: Alcohol Clin Exp Res. 2021 Jul;45(7):1424-1435. <https://pubmed.ncbi.nlm.nih.gov/34086361/>

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*