

Product Name: JNJ 55511118

Catalog No.: 6278

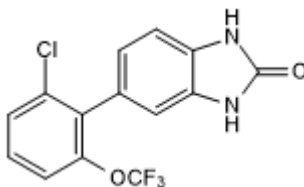
Batch No.: 1

CAS Number: 2036081-86-2

IUPAC Name: 5-[2-Chloro-6-(trifluoromethoxy)phenyl]-1,3-dihydro-2H-benzimidazol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₈ClF₃N₂O₂
Batch Molecular Weight: 328.67
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.23 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.16	2.45	8.52
Found	51.03	2.31	8.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

High affinity and selective negative modulator of AMPA receptors containing TARP-γ8 ($K_i = 26$ nM). Exhibits <50% binding against a panel of 52 receptors, ion channels and transporters (except 5HT_{2B} and melatonin receptors 78% and 57%, respectively). Also displays minimal activity against other TARP-less AMPARs and AMPARs coexpressed with other TARPs or CNIH2. Orally bioavailable and brain penetrant. Anticonvulsant.

Physical and Chemical Properties:

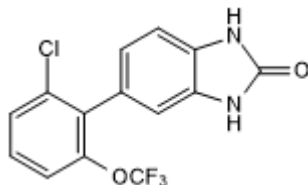
Batch Molecular Formula: C₁₄H₈ClF₃N₂O₂

Batch Molecular Weight: 328.67

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

USE WITH CARE; NOT FULLY TESTED - YOUR SUBLICENSE UNDER CERTAIN PATENT RIGHTS OF JANSSEN PHARMACEUTICA N.V. RESTRICTS USE TO INTERNAL RESEARCH ONLY - MAY NOT BE USED IN HUMANS - MAY NOT BE SOLD, TRANSFERRED, OR USED IN COMMERCIAL SERVICES.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold with the permission of Janssen Pharmaceutica N.V.

References:

Maher et al (2016) Discovery and Characterization of AMPA Receptor Modulators Selective for TARP-γ8. *J.Pharmacol.Exp.Ther.* **357** 394. PMID: 26989142.

Witkin et al (2016) A Comment on "Discovery and Characterization of AMPA Receptor Modulators Selective for TARP-γ8". *J.Pharmacol.Exp.Ther.* **358** 502. PMID: 27528544.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956