

JNJ-46778212

Chemical Properties

CAS No. : 1363281-27-9

Formula: C₂₀H₁₇FN₂O₃

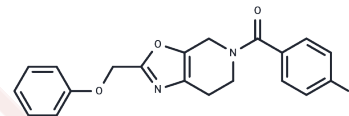
Molecular Weight: 352.36

Storage:

Store at low temperature, Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	JNJ-46778212 (VU 0409551) is a potent and selective mGlu5 allosteric modulator (EC ₅₀ : 260 nM) used for neurodissection studies.
Targets(IC ₅₀)	GluR
In vivo	JNJ-46778212 exhibits dose-dependent antipsychotic-like activity in rats (3-56.6 mg/kg, po) and reverses AHL[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (227.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.37 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.838 mL	14.190 mL	28.3801 mL
5 mM	0.5676 mL	2.838 mL	5.676 mL
10 mM	0.2838 mL	1.419 mL	2.838 mL
50 mM	0.0568 mL	0.2838 mL	0.5676 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Conde-Ceide S, et al. Discovery of VU0409551 /JNJ-46778212: An mGlu5 Positive Allosteric Modulator Clinical Candidate Targeting Schizophrenia. ACS Med Chem Lett. 2015 May 20;6(6):716-20.

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