

JNJ-46281222

Chemical Properties

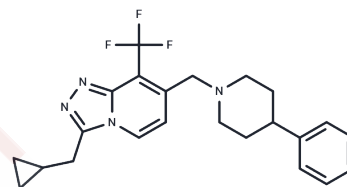
CAS No. : 1254980-38-5

Formula: C₂₃H₂₅F₃N₄

Molecular Weight: 414.47

Storage: 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-46281222 is a metabotropic glutamate (mGlu) 2-selective, highly potent positive allosteric modulator (PAM) with nanomolar affinity ($K_d = 1.7$ nM) and high modulatory potency ($pEC_{50} = 7.71$).
Targets(IC ₅₀)	GluR
In vitro	Compared with WT, JNJ-4628122 binds to the selected mGlu2 α receptor mutants is significantly decreased by approximately 10-fold. Mutations F643A and N735D are selected, in transfected mGlu2 α WT and mutant receptors in CHO-K1 cells [1].

Solubility Information

Solubility	DMSO: 62.5 mg/mL (150.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4127 mL	12.0636 mL	24.1272 mL
5 mM	0.4825 mL	2.4127 mL	4.8254 mL
10 mM	0.2413 mL	1.2064 mL	2.4127 mL
50 mM	0.0483 mL	0.2413 mL	0.4825 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

Doornbos ML, et al. Molecular mechanism of positive allosteric modulation of the metabotropic glutamate receptor 2 by JNJ-46281222. Br J Pharmacol. 2016 Feb;173(3):588-600.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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