

JNJ-28583113

Chemical Properties

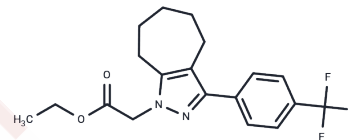
CAS No. : 2765255-93-2

Formula: C₁₉H₂₁F₃N₂O₂

Molecular Weight: 366.38

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-28583113 is a brain-penetrant TRPM2 antagonist that induces phosphorylation of GSK3 α and β subunits, protecting cells from oxidative stress-induced cell death. It inhibits microglia response to pro-inflammatory stimuli, used in the study of neurological diseases.
Targets(IC50)	TRP/TRPV Channel
In vitro	JNJ-28583113 is a potent TRPM2 antagonist, blocking TRPM2 leads to phosphorylation of GSK3 α and β subunits. JNJ-28583113 blocks TRPM2 in chimpanzees, rats, and humans with IC50 values of 100 nM, 25 nM, and 126 nM, respectively. [1]
In vivo	JNJ-28583113 (10 mg/kg, injected subcutaneously) is brain permeable, reaches 400 ng/ml in the brain compartment, and is rapidly metabolized in plasma. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (218.35 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	2.7294 mL	13.647 mL	27.2941 mL
5 mM	0.5459 mL	2.7294 mL	5.4588 mL
10 mM	0.2729 mL	1.3647 mL	2.7294 mL
50 mM	0.0546 mL	0.2729 mL	0.5459 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

Fourgeaud L, et al. Pharmacology of JNJ-28583113: A novel TRPM2 antagonist. Eur J Pharmacol. 2019 Jun 15;853: 299-307.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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