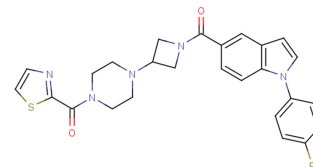


JNJ-42226314

Chemical Properties

CAS No.:	1252765-13-1
Formula:	C ₂₆ H ₂₄ FN ₅ O ₂ S
Molecular Weight:	489.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	JNJ-42226314 demonstrates dose-dependent enhancement of the major endocannabinoid 2-arachidonoylglycerol (2-AG) as well as efficacy in models of neuropathic and inflammatory pain. JNJ-42226314 is a competitive, highly selective and reversible non-covalent monoacylglycerol lipase (MAGL) inhibitor.
Targets(IC ₅₀)	Others: None
In vitro	JNJ-42226314 has IC ₅₀ s of 1.13 nM, 1.88 nM, 0.67 nM, 0.97 nM for human Hela cells, human PBMC, mouse brain and rat brain, respectively.
In vivo	JNJ-42226314 (i.p.; 30 mg/kg) is antinociceptive in the rat complete Freund's adjuvant (CFA) model of inflammatory pain. JNJ-42226314 has t _{1/2} values of 11.4, 27.6, 27.2 min for MAGL in human, mouse and rat, respectively. JNJ-42226314 (i.p.; 3 mg/kg and 30 mg/kg; 120 min) dose-dependently elevates hippocampal 2-AG in vivo. JNJ-42226314 (i.p.; 30 mg/kg) significantly increases total wake time for up to 8 hours afterward, whereas total wake time was only elevated for 2 hr following a 3 mg/kg dose.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.043 mL	10.213 mL	20.427 mL
5 mM	0.409 mL	2.043 mL	4.085 mL
10 mM	0.204 mL	1.021 mL	2.043 mL
50 mM	0.041 mL	0.204 mL	0.409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Wyatt RM, et al. Pharmacologic characterization of JNJ-42226314, [1-(4-fluorophenyl)indol-5-yl]-[3-[4-(thiazole-2-carbonyl)piperazin-1-yl]azetidin-1-yl]methanone, a reversible, selective and potent monoacylglycerol lipase inhibitor. *J Pharmacol Exp Ther.* 2019 Dec 9.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481