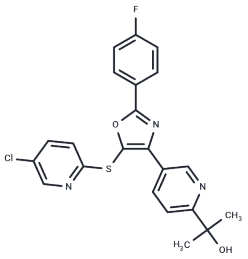
Data Sheet (Cat.No.T28059)

TargetMol

MK-4409

Chemical Properties



CAS No. : 1207745-58-1

Formula: C22H17ClFN3O2S

Molecular Weight: 441.91

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	MK-4409 is a novel and selective inhibitor of oxazole fatty acid amide hydrolase FAAH. MK-4409 can be used to study inflammatory and neuropathic pain.
Targets(IC50)	FAAH
In vivo	MK-4409 (3, 30 and 100 mg/kg, p.o) administered to the mouse SNL model,continued to show excellent efficacy over a period of 10 days, with plasma exposures also obtained at the 3 and 24 hour time points after the 30 mg/kg dose. However a reduction in edema was observed in the animals within a few days, which may contribute to its anti-inflammatory properties. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2629 mL	11.3145 mL	22.629 mL
5 mM	0.4526 mL	2.2629 mL	4.5258 mL
10 mM	0.2263 mL	1.1315 mL	2.2629 mL
50 mM	0.0453 mL	0.2263 mL	0.4526 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

Chobanian HR, et al. Discovery of MK-4409, a Novel Oxazole FAAH Inhibitor for the Treatment of Inflammatory and Neuropathic Pain. ACS Med Chem Lett. 2014 Apr 10;5(6):717-21.

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