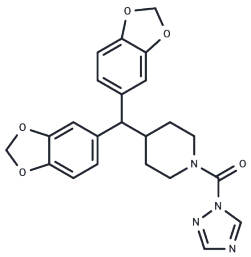
Data Sheet (Cat.No.T15614)

TargetMol

JJKK 048

Chemical Properties



CAS No. : 1515855-97-6

Formula: C23H22N4O5

Molecular Weight: 434.44

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	JJKK 048 is a potent and selective MAGL inhibitor.
Targets(IC50)	MAGL,Lipase

Solubility Information

Solubility	DMSO: 13 mg/mL (29.92 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: 2 mg/mL (4.6 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3018 mL	11.5091 mL	23.0181 mL
5 mM	0.4604 mL	2.3018 mL	4.6036 mL
10 mM	0.2302 mL	1.1509 mL	2.3018 mL
50 mM	0.046 mL	0.2302 mL	0.4604 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

Aaltonen N, et al. Piperazine and piperidine triazole ureas as ultrapotent and highly selective inhibitors of monoacylglycerol lipase. Chem Biol. 2013 Mar 21;20(3):379-90.

Aaltonen N, et al. In Vivo Characterization of the Ultrapotent Monoacylglycerol Lipase Inhibitor {4-[bis-(benzo[d][1,3]dioxol-5-yl)methyl]-piperidin-1-yl}(1H-1,2,4-triazol-1-yl)methanone (JJKK-048). J Pharmacol Exp Ther. 2016 Oct;359(1):62-72.

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