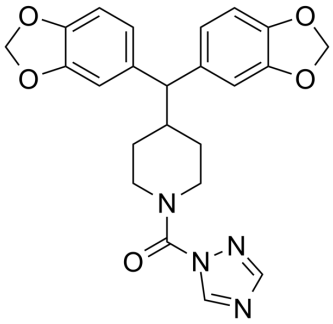
JJKK 048

Cat. No.:	HY-108613
CAS No.:	1515855-97-6
Molecular Formula:	$C_{23}H_{22}N_4O_5$
Molecular Weight:	434.44
Target:	MAGL
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (76.72 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	JJKK 048 is an ultrapotent and highly selective inhibitor of Monoacylglycerol lipase (MAGL).
IC_{50} & Target	MAGL[1]

REFERENCES

[1]. 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.

[2]. 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.

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