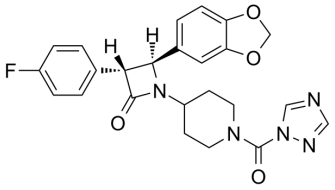
MGL-IN-1

Cat. No.:	HY-119033
CAS No.:	1881244-28-5
Molecular Formula:	$C_{24}H_{22}FN_5O_4$
Molecular Weight:	463.46
Target:	MAGL
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (134.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1577 mL	10.7884 mL	21.5768 mL
	5 mM	0.4315 mL	2.1577 mL	4.3154 mL
	10 mM	0.2158 mL	1.0788 mL	2.1577 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: ≥ 2.08 mg/mL (4.49 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (4.49 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.49 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MGL-IN-1 is a potent and selective irreversible MGL (β-lactam-based monoacylglycerol lipase) inhibitor. MGL-IN-1 alleviates symptoms in a MS model in vivo and exhibits analgesic effects in an acute inflammatory pain model in vivo. MGL-IN-1 displays high membrane permeability and brain penetrant[1].

REFERENCES

[1]. Brindisi M, et al. Development and Pharmacological Characterization of Selective Blockers of 2-Arachidonoyl Glycerol Degradation with Efficacy in Rodent Models of Multiple Sclerosis and Pain. J Med Chem. 2016 Mar 24;59(6):2612-32.

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