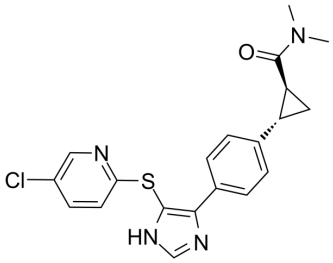
FAAH-IN-1

Cat. No.:	HY-111389
CAS No.:	1242441-47-9
Molecular Formula:	$C_{20}H_{19}ClN_4OS$
Molecular Weight:	398.91
Target:	FAAH; Autophagy
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling; Autophagy
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 : 100 mg/mL (250.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5068 mL	12.5342 mL	25.0683 mL
	5 mM	0.5014 mL	2.5068 mL	5.0137 mL
	10 mM	0.2507 mL	1.2534 mL	2.5068 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 (6.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FAAH-IN-1 is a fatty acid amide hydrolase (FAAH) inhibitor, with IC_{50}s of 145 nM and 650 nM for rat and human FAAH, respectively.

IC_{50} & Target

IC50: 145 nM (Rat FAAH), 650 nM (Human FAAH)[1]

In Vitro

FAAH-IN-1 (Compound 8) is a fatty acid amide hydrolase (FAAH) inhibitor, with IC_{50}s of 145 nM and 650 nM for rat and human FAAH, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu P, et al. Discovery of MK-3168: A PET Tracer for Imaging Brain Fatty Acid Amide Hydrolase. ACS Med Chem Lett. 2013 Apr 20;4(6):509-13.

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