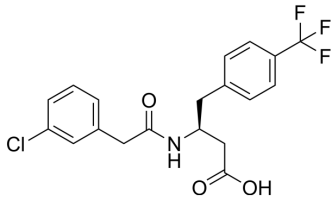
CATPB

Cat. No.:	HY-116263
CAS No.:	1322598-09-3
Molecular Formula:	$C_{19}H_{17}ClF_3NO_3$
Molecular Weight:	400
Target:	Free Fatty Acid Receptor
Pathway:	GPCR/G Protein
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 (250.00 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5000 mL	12.5000 mL	25.0000 mL
	5 mM	0.5000 mL	2.5000 mL	5.0000 mL
	10 mM	0.2500 mL	1.2500 mL	2.5000 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 (6.25 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.25 mM); Suspended solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	CATPB is a potent, selective free fatty acid receptor 2 (FFA2R/GPR43) antagonist[1].
IC_{50} & Target	FFA2R(GPR43)[1]
In Vitro	CATPB inhibits the transient rise in intracellular Ca^{2+} induced in neutrophils by acetate or Cmp1 (FFAR2 agonist)[1]. CATPB inhibits Cmp1-induced NADPH oxidase activity[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lena Björkman, et al. The Neutrophil Response Induced by an Agonist for Free Fatty Acid Receptor 2 (GPR43) Is Primed by Tumor Necrosis Factor Alpha and by Receptor Uncoupling from the Cytoskeleton but Attenuated by Tissue Recruitment. Mol Cell Biol. 2016 Sep 26;36(20):2583-95.

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