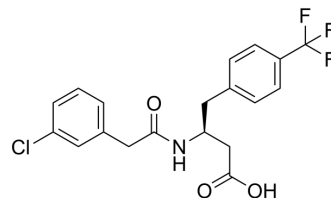


CATPB

Cat. No.:	HY-116263		
CAS No.:	1322598-09-3		
Molecular Formula:	C ₁₉ H ₁₇ ClF ₃ NO ₃		
Molecular Weight:	399.79		
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 (250.13 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5013 mL	12.5066 mL	25.0131 mL
		5 mM	0.5003 mL	2.5013 mL	5.0026 mL
10 mM		0.2501 mL	1.2507 mL	2.5013 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> 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 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 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] .
IC₅₀ & Target	FFA2R(GPR43) ^[1]
In Vitro	<p>CATPB inhibits the transient rise in intracellular Ca²⁺ induced in neutrophils by acetate or Cmp1 (FFAR2 agonist)^[1].</p> <p>CATPB inhibits Cmp1-induced NADPH oxidase activity^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- J Hematol Oncol. 2024 Feb 24;17(1):9.

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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.

Caution: Product has not been fully validated for medical applications. For research use only.

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