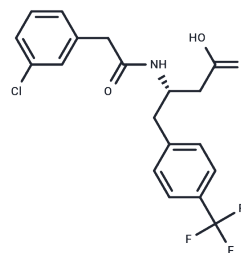


CATPB

Chemical Properties

CAS No. :	1322598-09-3
Formula:	C ₁₉ H ₁₇ ClF ₃ NO ₃
Molecular Weight:	399.79
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	CATPB is a potent and selective antagonist of free fatty acid receptor 2 (FFA2R/GPR43).
Targets(IC50)	Others
In vitro	Methods: Neutrophils were used as the research object, induced with acetate or the FFAR2 agonist Cmp1, and treated with CATPB. Results: CATPB inhibited the transient increase in intracellular Ca ²⁺ in neutrophils induced by acetate or Cmp1. Methods: Neutrophils induced by Cmp1 were used as the model and treated with CATPB.

Solubility Information

Solubility	DMSO: 80 mg/mL (200.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.050 mL	0.2501 mL	0.5003 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Liu YJ, Liu X, Chen H, Zheng P, Wang W, Wang L, Zhang J, Tu J. A Plastid-Localized Pentatricopeptide Repeat Protein is Required for Both Pollen Development and Plant Growth in Rice. *Sci Rep.* 2017 Sep 13;7(1):11484. doi: 10.1038/s41598-017-10727-x. PubMed PMID: 28904339; PubMed Central PMCID: PMC5597598.

Mizukami S, Watanabe Y, Nakajima K, Hasegawa-Baba Y, Jin M, Yoshida T, Shibutani M. Downregulation of TMEM70 in Rat Liver Cells After Hepatocarcinogen Treatment Related to the Warburg Effect in Hepatocarcinogenesis Producing GST-P-Expressing Proliferative Lesions. *Toxicol Sci.* 2017 Sep 1;159(1):211-223. doi: 10.1093/toxsci/kfx131. PubMed PMID: 28903497.

Vestergaard M, Nøhr-Meldgaard K, Bojer MS, Krogsgård Nielsen C, Meyer RL, Slavetinsky C, Peschel A, Ingmer H. Inhibition of the ATP Synthase Eliminates the Intrinsic Resistance of *Staphylococcus aureus* towards Polymyxins. *MBio.* 2017 Sep 5;8(5). pii: e01114-17. doi: 10.1128/mBio.01114-17. PubMed PMID: 28874470; PubMed Central PMCID: PMC5587909.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481