Data Sheet (Cat.No.T10900)

TargetMol

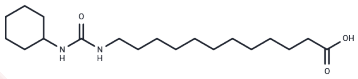
CUDA

Chemical Properties

CAS No. : 479413-68-8

Formula: C19H36N2O3

Molecular Weight: 340.5



Storage: Store at low temperature
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	CUDA is an effective soluble cyclohydrolase inhibitor with IC50 of 11.1 nM and 112 nM for mouse sEH and human sEH, respectively. CUDA selectively increases the activity of peroxisome proliferator-activated receptor (PPAR) alpha. CUDA may be valuable for the study of cardiovascular diseases.
Targets(IC50)	Epoxide Hydrolase,PPAR
In vitro	CUDA (10 μM; 18 hours) induced a 6-fold and 3-fold increase in PPARalpha mRNA expression in COS-7 cells without altering PPARalpha protein levels. It competitively inhibits Wy-14643 (pirinixic acid) binding to the PPARalpha ligand binding domain, indicating its role as a PPARalpha ligand.

Solubility Information

Solubility	DMSO: 3.41 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9369 mL	14.6843 mL	29.3686 mL
5 mM	0.5874 mL	2.9369 mL	5.8737 mL
10 mM	0.2937 mL	1.4684 mL	2.9369 mL
50 mM	0.0587 mL	0.2937 mL	0.5874 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

Morisseau C, et al. Structural refinement of inhibitors of urea-based soluble epoxide hydrolases. Biochem Pharmacol. 2002 May 1;63(9):1599-608.
Fang X, et al. Activation of peroxisome proliferator-activated receptor alpha by substituted urea-derived soluble epoxide hydrolase inhibitors. J Pharmacol Exp Ther. 2005 Jul;314(1):260-70.

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