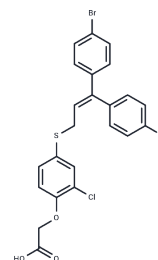


CAY10592

Chemical Properties

CAS No. : 685139-10-0
 Formula: C₂₃H₁₇Br₂ClO₃S
 Molecular Weight: 568.71
 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	Peroxisome proliferator-activated receptors (PPARs) α , δ , γ are ligand-activated nuclear transcription factors involved in the regulation of energy homeostasis as well as insulin sensitivity and glucose metabolism. Pharmacologies of PPAR δ receptor agonists, though relatively obscure, have recently been reported to elevate high-density lipoprotein (HDL) cholesterol and lower plasma triglyceride (TG) levels in obese insulin resistant rhesus monkeys. CAY10592 is a full PPAR δ agonist (EC ₅₀ = 30 nM) in a fatty acid oxidation assay of rat L6 muscle cells with desirable oral pharmacokinetic properties. In a transactivation assay using human PPAR receptors, CAY10592 acts as a selective partial PPAR δ agonist (EC ₅₀ = 53 nM) with no effect on PPAR α or PPAR γ activity up to 30 μ M. Chronic treatment of high fat fed ApoB100/CETP-transgenic mice with CAY10592 at a dose of 20 mg/kg increases HDL levels, decreases LDL and TG levels, and improves insulin sensitivity.
Targets(IC50)	Others

Solubility Information

Solubility	DMF:PBS (pH 7.2) (1:5): 0.2 mg/mL (0.35 mM),Sonication is recommended. Ethanol: 20 mg/mL (35.17 mM),Sonication is recommended. DMF: 30 mg/mL (52.75 mM),Sonication is recommended. DMSO: 30 mg/mL (52.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7584 mL	8.7918 mL	17.5837 mL
5 mM	0.3517 mL	1.7584 mL	3.5167 mL
10 mM	0.1758 mL	0.8792 mL	1.7584 mL
50 mM	0.0352 mL	0.1758 mL	0.3517 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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