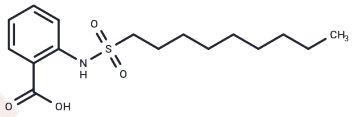
Data Sheet (Cat.No.T60926)

TargetMol

FSG67

Chemical Properties



CAS No. : 1158383-34-6

Formula: C16H25NO4S

Molecular Weight: 327.44

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	FSG67 is a glycerol 3-phosphate acyltransferase (GPAT) and glycerol-3-phosphate acyltransferase, mitochondrial (GPAM) inhibitor that attenuates hepatic regeneration following acetaminophen overdose by altering GSK3β and Wnt/β-catenin signaling.
Targets(IC50)	Others,Acyltransferase,Transferase
In vitro	FSG67 is a glycerol 3-phosphate acyltransferase (GPAT) inhibitor with an IC50 value of 24 μM.FSG67 was able to reduce the level of phosphorylation of GSK3β and associated signaling after paracetamol (acetaminophen) overdose. [1] In mature adipocytes, FSG67 elevated oxidative metabolism in a dose-dependent manner with an IC50 of 27.7 μM. [2]

Solubility Information

Solubility	DMSO: 80 mg/mL (244.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.08 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.054 mL	15.270 mL	30.5399 mL
5 mM	0.6108 mL	3.054 mL	6.108 mL
10 mM	0.3054 mL	1.527 mL	3.054 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 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

Clemens MM, et al. The inhibitor of glycerol 3-phosphate acyltransferase FSG67 blunts liver regeneration after acetaminophen overdose by altering GSK3β and Wnt/β-catenin signaling. Food Chem Toxicol. 2019 Mar;125:279-288.

Reilly SM, et al. Catecholamines suppress fatty acid re-esterification and increase oxidation in white adipocytes via STAT3. Nat Metab. 2020 Jul;2(7):620-634.