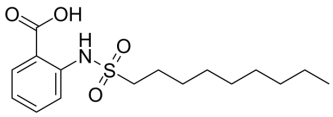
FSG67

Cat. No.:	HY-112489		
CAS No.:	1158383-34-6		
Molecular Formula:	$C_{16}H_{25}NO_4S$		
Molecular Weight:	327.44		
Target:	Others		
Pathway:	Others		
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 (305.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0540 mL	15.2700 mL	30.5399 mL
	5 mM	0.6108 mL	3.0540 mL	6.1080 mL
	10 mM	0.3054 mL	1.5270 mL	3.0540 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	FSG67 is a glycerol 3-phosphate acyltransferase (GPAT) inhibitor with an IC_{50} of 24 μM[1].
IC_{50} & Target	GPAT[1]
In Vitro	FSG67 reduces GSK3β phosphorylation and signaling after acetaminophen overdose[1]. FSG67 results in a dose-dependent increase in oxidative metabolism in mature adipocytes with an IC_{50} of 27.7 ± 4.4 μM[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. 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.

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

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