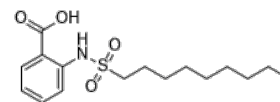


Product Name : FSG67
Cat. No. : PC-27442
CAS No. : 1158383-34-6
Molecular Formula : C₁₆H₂₅NO₄S
Molecular Weight : 327.44
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

FSG67 is a small molecule mitochondrial glycerol-3-phosphate acyltransferase (**mitochondrial GPAT, GPAM**) inhibitor with IC₅₀ 30.2 μM for total mitochondrial GPAT and 42.1 μM for GPAT1.

FSG67 reduces acylglyceride synthesis in 3T3-L1 adipocytes, has IC₅₀ of 33.9 μM for cellular triglyceride synthesis and 36.3 μM for phosphatidylcholine synthesis.

Acute FSG67 treatment (20 mg/kg ip) produces weight loss and decreases food consumption in lean and DIO mice.

Chronic FSG67 decreases the size of white adipocytes and resolves hepatic steatosis in DIO mice, reduces food consumption and body weight.

FSG67 blunts liver regeneration after acetaminophen overdose by altering GSK3β and Wnt/β-catenin signaling.

References

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Irifune H, et al. *Cancer Sci*. 2023 Aug;114(8):3247-3258.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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