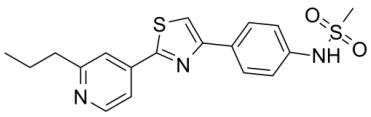
Data Sheet

Product Name:	FGH10019
Cat. No.:	CS-3637
CAS No.:	1046045-61-7
Molecular Formula:	C18H19N3O2S2
Molecular Weight:	373.49
Target:	Fatty Acid Synthase (FAS)
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : ≥ 38 mg/mL (101.74 mM)



BIOLOGICAL ACTIVITY:

FGH10019 is a novel sterol regulatory element-binding protein (**SREBP**) inhibitor with **IC_{50}** of 1 μM. IC50 & Target: IC50: 1 μM (SREBP) **In Vitro:** Treatment of the CHO-K1 cells with analog FGH10019 decreases the percentage of the mature form of SREBP-2 (68 kDa) at lower concentrations than treatment with fatostatin. Densitometric analysis of the gels indicates that the IC_{50} of analog FGH10019 is approximately 1 μM, which is 5-10 times lower than the IC_{50} of fatostatin (appr 10 μM)[1]. **In Vivo:** FGH10019-treated chow is fed at a dose rate calculated to provide about 0.7 mg analog FGH10019 per day, at about 23 mg/kg body weight, to 5-wk-old male ob/ob mice weighing an average of appr 30 g. After 8 wk on the analog 24-treated chow, the mice gain 8-9 % less weight than control mice [1].

PROTOCOL (Extracted from published papers and Only for reference)

Animal Administration: [1]Five-week-old homozygous male obese (ob/ob) mice (C57BL/6J) are housed five per cage, and had ad libitum access to normal chow and water for 1 wk after their arrival. On day 1 of the experiment, the animals (10 per group) are fed normal chow (control diet) or chow that contains 200 mg/kg of analogue 24. These doses are estimated to provide approximately 0.7 mg analogue 24 per day (appr 23 mg/kg body weight per day). Daily food intake and body weight are carefully monitored and recorded between 3:00 and 5:00 p.m. Serum constituents, and TG levels in livers are determined.

References:

[1]. Kamisuki S, et al. Synthesis and evaluation of diarylthiazole derivatives that inhibit activation of sterol regulatory element-binding proteins. J Med Chem. 2011 Jul 14;54(13):4923-7.

CAIndexNames:

Methanesulfonamide, N-[4-[2-(2-propyl-4-pyridinyl)-4-thiazolyl]phenyl]-

SMILES:

CS(=O)(NC1=CC=C(C2=CSC(C3=CC(CCC)=NC=C3)=N2)C=C1)=O

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