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产品名称: **FGH10019**  
产品别名: **FGH10019**

生物活性:					
Description	FGH10019 is a novel sterol regulatory element-binding protein (SREBP) inhibitor with IC <sub>50</sub> of 1 μM.				
IC <sub>50</sub> & 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 IC50 of analog FGH10019 is approximately 1 μM, which is 5-10 times lower than the IC50 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].				
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : ≥ 38 mg/mL (101.74 mM)</b>  * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.6774 mL	13.3872 mL	26.7745 mL
		5 mM	0.5355 mL	2.6774 mL	5.3549 mL
		10 mM	0.2677 mL	1.3387 mL	2.6774 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。  储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
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.				
实验参考:					
Animal Administration	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.				