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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 ₅₀ of 1 μM.																													
IC₅₀ & Target	IC ₅₀ : 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].																													
Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : ≥ 38 mg/mL (101.74 mM)</p> <p>* "≥" means soluble, but saturation unknown.</p>																													
	<table border="1"> <thead> <tr> <th rowspan="2">Preparing Stock Solutions</th> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> <tr> <th>Concentration</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>1 mM</td> <td></td> <td>2.6774 mL</td> <td>13.3872 mL</td> <td>26.7745 mL</td> </tr> <tr> <td></td> <td>5 mM</td> <td></td> <td>0.5355 mL</td> <td>2.6774 mL</td> <td>5.3549 mL</td> </tr> <tr> <td></td> <td>10 mM</td> <td></td> <td>0.2677 mL</td> <td>1.3387 mL</td> <td>2.6774 mL</td> </tr> </tbody> </table>	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg	Concentration						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
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<p>*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。</p> <p>储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。</p>																														
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.																													
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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.																													
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