



上海源叶生物科技有限公司
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产品名称: **Elafibranor**
产品别名: **GFT505**

生物活性:

Description	Elafibranor is a PPARα/δ agonist with EC50s of 45 and 175 nM, respectively.				
IC50 & Target	PPAR-α	PPAR-δ			
	45 nM (EC50)	175 nM (EC50)			
In Vitro	GFT505 is being developed as a dual PPAR-α/PPAR-δ agonist for the treatment of T2DM and non-alcoholic fatty liver disease. GFT505 has an active metabolite, GFT1007, and both have potent agonist activity for PPAR-α and to a lesser extent for PPAR-δ[1].				
In Vivo	GFT505 improves insulin sensitivity and early studies indicate it may be useful in non-alcoholic fatty liver disease which is being tested in a Phase IIb study[1]. Elafibranor is well tolerated and does not cause weight gain or cardiac events, but does produce a mild, reversible increase in serum creatinine. Elafibranor improves insulin sensitivity, glucose homeostasis, and lipid metabolism and reduces inflammation[2]. GFT505 treatment improves glucose control and plasma lipids in diabetic db/db mice. A significant dose-dependent reduction of hepatic expression of the key gluconeogenic enzymes glucose 6-phosphatase (G6Pase), PEPCK, and fructose 1,6-bisphosphatase 1 (FBP1) is observed with GFT505. GFT505 does not induce cardiac adverse effects of PPARγ-activating agonists in monkeys[3].				
Solvent&Solubility	In Vitro: DMSO : ≥ 33 mg/mL (85.83 mM) H2O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		1 mM	2.6008 mL	13.0042 mL	26.0085 mL
		5 mM	0.5202 mL	2.6008 mL	5.2017 mL
		10 mM	0.2601 mL	1.3004 mL	2.6008 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°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。				
	In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂： ——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.17 mg/mL (5.64 mM); Clear solution 此方案可获得 ≥ 2.17 mg/mL (5.64 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 21.7 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀。				



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	<p>向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。</p> <p>2 请依序添加每种溶剂: 10% DMSO \rightarrow 90% corn oil</p> <p>Solubility: ≥ 2.17 mg/mL (5.64 mM); Clear solution</p> <p>此方案可获得 ≥ 2.17 mg/mL (5.64 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 21.7 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Liu ZM, et al. Early investigational drugs targeting PPAR-α for the treatment of metabolic disease. Expert Opin Investig Drugs. 2015 May;24(5):611-21.</p> <p>[2]. Ratzliff V, et al. Elafibranor, an Agonist of the Peroxisome Proliferator-Activated Receptor-α and -δ, Induces Resolution of Nonalcoholic Steatohepatitis Without Fibrosis Worsening. Gastroenterology. 2016 May;150(5):1147-1159.</p> <p>[3]. Hanf R, et al. The dual peroxisome proliferator-activated receptor alpha/delta agonist GFT505 exerts anti-diabetic effects in db/db mice without peroxisome proliferator-activated receptor gamma-associated adverse cardiac effects. Diab Vasc Dis Res. 2014 No</p>

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