



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

生物活性:					
Description	Fexaramine is a small molecule farnesoid X receptor (FXR) agonist with 100-fold increased affinity relative to natural compounds. IC50 value: Target: in vitro: In vitro treatment of CDCA or fexaramine elevated the SHP transcript level and occupancy on secretin promoter [1]. Fexaramine significantly enhanced osteoblastic differentiation through the upregulation of Runx2 and enhanced extracellular signal-regulated kinase (ERK) and β-catenin signaling [2]. By mimicking this tissue-selective effect, the gut-restricted FXR agonist fexaramine (Fex) robustly induces enteric fibroblast growth factor 15 (FGF15), leading to alterations in BA composition, but does so without activating FXR target genes in the liver [3].				
Solvent&Solubility	In Vitro: DMSO : 50 mg/mL (100.68 mM; Need ultrasonic)				
	<div>Preparing Stock Solutions</div>	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg	10 mg
		1 mM	2.0135 mL	10.0677 mL	20.1353 mL
		5 mM	0.4027 mL	2.0135 mL	4.0271 mL
		10 mM	0.2014 mL	1.0068 mL	2.0135 mL
	<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> <p>In Vivo:</p> <p>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:</p> <p>——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</p> <p>1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p> <p>Solubility: ≥ 2.5 mg/mL (5.03 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.03 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀, 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 →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (5.03 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.03 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 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>				
	[1]. Lam IP, et al. Bile acids inhibit duodenal secretin expression via orphan nuclear receptor small				



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References

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- [2]. Cho SW, et al. Positive regulation of osteogenesis by bile acid through FXR. J Bone Miner Res. 2013 Oct;28(10):2109-21.
- [3]. Fang S, et al. Intestinal FXR agonism promotes adipose tissue browning and reduces obesity and insulin resistance. Nat Med. 2015 Feb;21(2):159-65.



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