



上海源叶生物科技有限公司
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产品名称: **PFK-158**
产品别名: **PFK-158**

生物活性:				
Description	PFK-158 is a potent and selective inhibitor of PFKFB3 that is currently being investigated in a phase I study in patients with advanced solid malignancies. Target: PFKFB3 in vitro: PFK-158 is the first 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 (PFKFB3) inhibitor to undergo clinical trial testing in cancer patients. PFK-158, a small molecule therapeutic candidate that inactivates a novel cancer metabolism target never before examined in human clinical trials. PFK-158 is not only a first-in-class cancer drug but also the first to target glucose metabolism by inhibiting PFKFB3. PFK-158 is a nanomolar inhibitor of recombinant PFKFB3. PFK-158 inhibits PFKFB3 activity and glycolysis in cancer cells. in vivo: PFK158 is well tolerated in rats and dogs resulting in an acceptable pre-clinical therapeutic index. PFK158 is very effective in multiple preclinical mouse models of human-derived tumors and syngeneic murine models. IND-enabling safety and toxicity studies demonstrated that PFK158 is well tolerated in rats and dogs and supported the initiation of a phase I trial that is now underway.			
	In Vitro: DMSO : ≥ 30 mg/mL (91.38 mM) H₂O : < 0.1 mg/mL (insoluble) <small>* "≥" means soluble, but saturation unknown.</small>			
Solvent&Solubility	Preparing	Solvent	Mass	
		Concentration		
			1 mg	5 mg
			10 mg	
	Stock Solutions			
		1 mM	3.0461 mL	15.2304 mL
		5 mM	0.6092 mL	3.0461 mL
		10 mM	0.3046 mL	1.5230 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 mg/mL (6.09 mM); Suspended solution; Need ultrasonic 此方案可获得 2 mg/mL (6.09 mM)的均匀悬浊液, 悬浊液可用于口服和腹腔注射。 以 1 mL 工作液为例, 取 100 μ L 20.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀, 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 生理盐水定容至 1 mL。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE- β -CD in saline)				



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	<p>Solubility: 2 mg/mL (6.09 mM); Suspended solution; Need ultrasonic</p> <p>此方案可获得 2 mg/mL (6.09 mM)的均匀悬浊液, 悬浊液可用于口服和腹腔注射。</p> <p>以 1 mL 工作液为例, 取 100 μL 20.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。</p> <p>3.请依序添加每种溶剂: 10% DMSO \rightarrow 90% corn oil</p> <p>Solubility: \geq 2 mg/mL (6.09 mM); Clear solution</p> <p>此方案可获得 \geq 2 mg/mL (6.09 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 20.0 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]. Rebecca Redman, et al. Abstract CT206: PFK-158, first-in-man and first-in-class inhibitor of PFKFB3/ glycolysis: A phase I, dose escalation, multi-center study in patients with advanced solid malignancies. Cancer Res August 1, 2015 75; CT206. doi: 10.1158/1538-7445.AM2015-CT206.</p> <p>[2]. Sucheta Telang, et al. Discovery of a PFKFB3 inhibitor for phase I trial testing that synergizes with the B-Raf inhibitor vemurafenib. Cancer Metab. 2014; 2(Suppl 1): P14.</p>

源叶生物