



上海源叶生物科技有限公司
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产品名称: **Tafluprost**
产品别名: **AFP-168; MK2452; 他氟前列素**

生物活性:				
Description	Tafluprost(AFP-168) is an anti-glaucoma prostaglandin (PG) analog. Target:Others Tafluprost showed significant IOP-lowering effects without any safety concerns in patients with various types of glaucoma and OH in daily clinical practice and tafluprost is highly effective in any therapeutic patterns [1]. Tafluprost with reduced BAK has potential as a superior antiglaucoma drug, not only for its IOP-lowering effect, but also for its good corneal safety profile [2]. Tafluprost single-use vials treatment was effective in reducing IOP over the 3 years of this study, but visual field performance worsened by 10.3%-13.8% in patients with normal-tension glaucoma. Safety was satisfactory [3].			
	In Vitro: DMSO : ≥ 270 mg/mL (596.65 mM) * "≥" means soluble, but saturation unknown.			
Solvent&Solubility	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	2.2098 mL	11.0490 mL
		5 mM	0.4420 mL	2.2098 mL
		10 mM	0.2210 mL	1.1049 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。 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: ≥ 2.25 mg/mL (4.97 mM); Clear solution 此方案可获得 ≥ 2.25 mg/mL (4.97 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 22.5 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。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.25 mg/mL (4.97 mM); Clear solution 此方案可获得 ≥ 2.25 mg/mL (4.97 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 22.5 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。			



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	3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.25 mg/mL (4.97 mM); Clear solution 此方案可获得 ≥ 2.25 mg/mL (4.97 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。 以 1 mL 工作液为例, 取 100 μL 22.5 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Kuwayama, Y. and A. Nomura, Prospective observational post-marketing study of tafluprost for glaucoma and ocular hypertension: short-term efficacy and safety. Adv Ther, 2014. 31(4): p. 461-71. [2]. Kumagami, T., et al., Comparison of corneal safety and intraocular pressure-lowering effect of tafluprost ophthalmic solution with other prostaglandin ophthalmic solutions. J Ocul Pharmacol Ther, 2014. 30(4): p. 340-5. [3]. Inoue, K., A. Tanaka, and G. Tomita, Effects of tafluprost treatment for 3 years in patients with normal-tension glaucoma. Clin Ophthalmol, 2013. 7: p. 1411-6.

源叶生物