



上海源叶生物科技有限公司  
Shanghai yuanye Bio-Technology Co., Ltd  
电话: 021-61312973 传真: 021-55068248  
网址: [www.shyuanye.com](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

产品名称: **GSK2256294A**  
产品别名: **GSK2256294A**

生物活性:				
Description	GSK2256294A is a potent, reversible, tight binding inhibitor of isolated recombinant human sEH (soluble epoxide hydrolase) (IC50 = 27 pM; t1/2 = 121 min) and displays potent inhibition against the rat (IC50 = 61 pM) and murine (IC50 = 189 pM) orthologs of sEH. IC50 value: 27 pM Target: sEH in vitro: GSK2256294A also displays potent cellular inhibition (IC50 = 0.66 nM) of sEH in an assay developed using a cell line transfected with the human sEH enzyme. [1] in vivo: A novel, potent, selective inhibitor of recombinant human, rat and mouse sEH, GSK2256294A, exhibits potent cell-based activity, a concentration-dependent inhibition of the conversion of 14,15-EET to 14,15-DHET in human, rat and mouse whole blood, and a dose-dependent increase in the LTX/LTX diol ratio in rat plasma following oral administration. Mice receiving 10 days of cigarette smoke exposure concomitant with oral administration of GSK2256294A exhibits significant, dose-dependent reductions in pulmonary leukocytes and keratinocyte chemoattractant levels. Mice receiving oral administration of GSK2256294A following 10 days of cigarette smoke exposure exhibited significant reductions in pulmonary leukocytes compared to vehicle-treated mice.			
	<b>In Vitro:</b> <b>DMSO : ≥ 47 mg/mL (105.04 mM)</b> <small>* "≥" means soluble, but saturation unknown.</small>			
Solvent&Solubility	Preparing	Solvent	Mass	
		Concentration		
	Stock Solutions	1 mM	2.2348 mL	11.1742 mL
		5 mM	0.4470 mL	2.2348 mL
		10 mM	0.2235 mL	1.1174 mL
	<b>*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。</b> <b>储备液的保存方式和期限</b> -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。 <b>In Vivo:</b> 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 <b>1.请依序添加每种溶剂：</b> 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline <b>Solubility:</b> ≥ 2.5 mg/mL (5.59 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.59 mM，饱和度未知) 的澄清溶液。 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。 <b>2.请依序添加每种溶剂：</b> 10% DMSO→ 90% (20% SBE-β-CD in saline)			



上海源叶生物科技有限公司  
Shanghai yuanye Bio-Technology Co., Ltd  
电话: 021-61312973 传真: 021-55068248  
网址: [www.shyuanye.com](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

	<p>Solubility: <math>\geq 2.5</math> mg/mL (5.59 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.59 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 20% 的 SBE-<math>\beta</math>-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 <math>\rightarrow</math> 90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (5.59 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.59 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 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中, 混合均匀。</p>
References	<p>[1]. Podolin PL, et al. In vitro and in vivo characterization of a novel soluble epoxide hydrolase inhibitor. Prostaglandins Other Lipid Mediat. 2013 Jul-Aug;104-105:25-31.</p>

源叶生物