



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
邮箱: shyysw@sina.com

产品名称: **AM679**
产品别名: **AM679**

生物活性:				
Description	AM679 is a potent and selective FLAP inhibitor with IC50s of 2.2 nM/0.6 nM/154 nM for FLAP binding/hLA/hWB respectively. IC50 value: 2.2 nM/0.6 nM/154 nM(FLAP binding/hLA/hWB) [1] Target: FLAP in vitro: AM679 showed excellent in vitro inhibition against FLAP. AM679 has an excellent hWB IC50 potency of 154 nM. AM679 showed an improved CYP inhibition profile (IC50 3A4 = 16.7 IM, 2C9 = 3.7 IM, 2D6 >30 IM), no time dependent inhibition against CYP3A4 (0.003 min-1 vs 0.057 min-1 for troleandomycin control 10 uM) and no CYP3A4 induction. in vivo: AM679 was profiled in a rodent bronchoalveolar lavage (BAL) model to measure its ability to inhibit production of leukotrienes in vivo.16 Oral administration of 39 (10 mg/kg as the sodium carboxylate salt) 4 h prior to ionophore challenge reduced LTB4 and CysLT levels in the rodent lung lavage fluid by 98% and 87%, respectively, with corresponding average rodent plasma levels of 605 nM (3 h post dose, rat blood LTB4 IC50 = 125 nM).			
Solvent&Solubility	In Vitro: DMSO : ≥ 100 mg/mL (144.33 mM) H₂O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	1.4433 mL	7.2164 mL
	Stock Solutions	5 mM	0.2887 mL	1.4433 mL
		10 mM	0.1443 mL	0.7216 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: 2.75 mg/mL (3.97 mM); Suspended solution; Need ultrasonic 此方案可获得 2.75 mg/mL (3.97 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 μL 27.5 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% corn oil Solubility: ≥ 2.75 mg/mL (3.97 mM); Clear solution				



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	此方案可获得 ≥ 2.75 mg/mL (3.97 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 27.5 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Stock, N, et al. 5-Lipoxygenase-activating protein inhibitors. Part 2: 3-{5-[(S)-1-Acetyl-2,3-dihydro-1H-indol-2-ylmethoxy]-3-tert-butylsulfanyl-1-[4-(5-methoxy-pyrimidin-2-yl)-benzyl]-1H-indol-2-yl}-2,2-dimethyl-propionic acid (AM679)-A potent FLAP inhib [2]. Musiyenko, A, et al. A novel 5-lipoxygenase-activating protein inhibitor, AM679, reduces inflammation in the respiratory syncytial virus-infected mouse eye. Clinical and Vaccine Immunology (2009), 16(11), 1654-1659.

源叶生物