



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: WHI-P97
产品别名: WHI-P97

生物活性:				
Description	WHI-P97 is a rationally designed potent inhibitor of JAK-3. IC50 value: Target: JAK3 Treatment of mast cells with WHI-P97 inhibited the translocation of 5-lipoxygenase (5-LO) from the nucleoplasm to the nuclear membrane and consequently 5-LO-dependent leukotriene (LT) synthesis after IgE receptor/FcepsilonRI crosslinking by >90% at low micromolar concentrations. WHI-P97 did not directly inhibit the enzymatic activity of 5-LO, but prevented its translocation to the nuclear membrane without affecting the requisite calcium signal. WHI-P97 was very well tolerated in mice, with no signs of toxicity at dose levels ranging from 5 microg/kg to 50 mg/kg, and LD(10) was not reached at a 50 mg/kg dose level when administered as a single i. p. or i.v. bolus dose.			
	JAK3 11 μ M (IC ₅₀)			
Solvent&Solubility	In Vitro: DMSO: 5.88 mg/mL (12.92 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)			
	Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg
		1 mM	2.1973 mL	10.9866 mL
		5 mM	0.4395 mL	2.1973 mL
		10 mM	0.2197 mL	1.0987 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: \geq 0.59 mg/mL (1.30 mM); Clear solution 此方案可获得 \geq 0.59 mg/mL (1.30 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 5.8999996 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% corn oil Solubility: \geq 0.59 mg/mL (1.30 mM); Clear solution 此方案可获得 \geq 0.59 mg/mL (1.30 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			



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	<p>的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 5.8999996 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]. Ji KA, Yang MS, Jou I, Shong MH, Joe EH. Thrombin induces expression of cytokine-induced SH2 protein (CIS) in rat brain astrocytes: involvement of phospholipase A2, cyclooxygenase, and lipoxygenase. <i>Glia</i>. 2004 Nov 1;48(2):102-11.</p> <p>[2]. Wong WS, Leong KP. Tyrosine kinase inhibitors: a new approach for asthma. <i>Biochim Biophys Acta</i>. 2004 Mar 11;1697(1-2):53-69.</p> <p>[3]. Uckun FM, Sudbeck EA, Mao C, Ghosh S, Liu XP, Vassilev AO, Navara CS, Narla RK. Structure-based design of novel anticancer agents. <i>Curr Cancer Drug Targets</i>. 2001 May;1(1):59-71.</p> <p>[4]. Sudbeck EA, Liu XP, Narla RK, Mahajan S, Ghosh S, Mao C, Uckun FM. Structure-based design of specific inhibitors of Janus kinase 3 as apoptosis-inducing antileukemic agents. <i>Clin Cancer Res</i>. 1999 Jun;5(6):1569-82.</p>

源叶生物