



上海源叶生物科技有限公司
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产品名称: **SYP-5**
产品别名: **SYP-5**

生物活性:				
Description	SYP-5 is a novel HIF-1 inhibitor, suppresses tumor cells invasion and angiogenesis.			
IC ₅₀ & Target	HIF[1]			
In Vitro	SYP-5 inhibits hypoxia-induced upregulation of HIF-1. SYP-5 inhibits HIF-1 and downstream gene expression in Hep3B and Bcap37 cells. SYP-5 inhibits tumor cell migration and invasion, as well as tumor angiogenesis, which are mediated by suppressing PI3K/AKT- and MAPK/ERK-dependent HIF-1 pathway. The proteins of vascular endothelial growth factor (VEGF) and matrix metalloproteinases (MMP)-2 that are targets of HIF-1, are down-regulated by SYP-5. SYP-5 displays significant inhibition on hypoxia-induced overexpression of VEGF and MMP2 in both cell lines. In the tube formation assay, SYP-5 suppresses angiogenesis induced by hypoxia and VEGF in vitro. SYP-5 also retards the Hep3B and Bcap37 cells migration and invasion induced by hypoxia and FBS. SYP-5 specifically inhibits hypoxic induction of luciferase expression in U251-HRE but not in U251-pGL3[1].			
Solvent&Solubility	In Vitro: DMSO : 33.33 mg/mL (106.70 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
	Preparing	1 mM	3.2012 mL	16.0061 mL
	Stock Solutions	5 mM	0.6402 mL	3.2012 mL
		10 mM	0.3201 mL	1.6006 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: ≥ 2.5 mg/mL (8.00 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (8.00 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。 2.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (8.00 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				



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	实验。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。
References	[1]. Wang LH, et al. SYP-5, a novel HIF-1 inhibitor, suppresses tumor cells invasion and angiogenesis. Eur J Pharmacol. 2016 Nov 15;791:560-568.
实验参考:	
Cell Assay	The cells (1×10^5 cells/mL) are seeded into 96-well culture plates. After overnight incubation, the cells are treated with various concentrations of SYP-5 (2, 10, 50 μ M) for 24 h. Then 10 μ L MTT solution (2.5 mg/mL in PBS) is added to each well, and the plates are incubated for additional 4 h at 37°C. After centrifugation (2500 rpm, 10 min), the medium containing MTT is aspirated, and 100 μ L DMSO is added. The optical density of each well is measured at 570 nm with a SpectraMax Paradigm Reader ⁽¹⁾ .
References	[1]. Wang LH, et al. SYP-5, a novel HIF-1 inhibitor, suppresses tumor cells invasion and angiogenesis. Eur J Pharmacol. 2016 Nov 15;791:560-568.

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