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产品名称: 索法酮
产品别名: Sofalcone

生物活性:					
Description	Sofalcone, a gastric antiulcer agent, is known to induce the expression of Heme oxygenase-1 (HO-1) in gastric epithelium.				
IC ₅₀ & Target	Heme oxygenase-1[1]				
In Vitro	Sofalcone (50 μmol/L) significantly increases HO-1 mRNA expression compare with the control group in both trophoblasts and HUVECs (P<0.05 for both). Western blot analysis demonstrates that Sofalcone potently increases HO-1 protein expression in primary HUVECs treated for 24 hours. Western blot analysis also reveals a significant increase in the amount of Nrf2 in the nuclear fraction of HUVECs with Sofalcone treatment (50 μmol/L) for 6 hours. In primary HUVECs, expression of NQO1, TXN, and GCLC are increased in a dose dependently manner with Sofalcone treatment for 24 hours. Sofalcone significantly decreases the sFlt-1 concentrations in the culture media and dose dependently decreases the amount of THP-1 monocyte adherence to HUVECs[1].				
Solvent&Solubility	In Vitro: DMSO : ≥ 100 mg/mL (221.97 mM) H₂O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg
		1 mM	2.2197 mL	11.0983 mL	22.1966 mL
		5 mM	0.4439 mL	2.2197 mL	4.4393 mL
		10 mM	0.2220 mL	1.1098 mL	2.2197 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 →90% corn oil Solubility: ≥ 2.75 mg/mL (6.10 mM); Clear solution 此方案可获得 ≥ 2.75 mg/mL (6.10 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。				
	[1]. Onda K, et al. Sofalcone upregulates the nuclear factor (erythroid-derived 2)-like 2/heme oxygenase-1				



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References	pathway, reduces soluble fms-like tyrosine kinase-1, and quenches endothelial dysfunction: potential therapeutic for preeclampsia. Hypertension. 2015 Apr;65(4):855-62.
实验参考:	
Cell Assay	Primary HUVECs are seeded at 60 000 cells per well and incubated at 37°C for 14 to 16 hours to allow tube formation. Cells are then cultured in the presence of either TNF- α (10 ng/mL) alone, with both TNF- α (10 ng/mL) and Sofalcone 50 μ M, or control media for 8 to 12 hours. Tube formation is assessed, and images are captured using microscope at $\times 4$ magnification[1].
References	[1]. Onda K, et al. Sofalcone upregulates the nuclear factor (erythroid-derived 2)-like 2/heme oxygenase-1 pathway, reduces soluble fms-like tyrosine kinase-1, and quenches endothelial dysfunction: potential therapeutic for preeclampsia. Hypertension. 2015 Apr;65(4):855-62.

源叶生物