

产品名称: **SKF-96365 (hydrochloride)**
产品别名: **SKF-96365 hydrochloride**

生物活性:				
Description	SKF-96365 hydrochloride is a non-selective TRP Channel blocker.			
IC ₅₀ & Target	TRP Channel[1]			
In Vitro	SKF-96365 exhibits potent anti-neoplastic activity by inducing cell-cycle arrest and apoptosis in colorectal cancer cells. SKF-96365 inhibits hERG current in a concentration-dependent manner[1]. SKF-96365 can induces cytoprotective autophagy to delay apoptosis by preventing the release of cytochrome c (cyt c) from the mitochondria into the cytoplasm. Mechanistically, SKF-96365 treatment inhibits the calcium/calmodulin-dependent protein kinase II γ (CaMKII γ)/AKT signaling cascade. Overexpression of CaMKII γ or AKT abolishes the effects of SKF-96365 on cancer cells, suggesting a critical role of the CaMKII γ /AKT signaling pathway in SFK-96365-induced biological effects[2].			
In Vivo	SKF-96365 inhibits CRC cell growth in vivo. SKF-96365 treatment results in a decrease of p-CaMKII and p-AKT as well as an increase in LC3-II, cleaved PARP, caspase-3, and caspase-9 in mice[2].			
Solvent&Solubility	In Vitro: DMSO : 100 mg/mL (248.19 mM; Need ultrasonic)			
	Preparing Stock Solutions	<div>Solvent Mass Concentration</div>	1 mg	5 mg
		1 mM	2.4819 mL	12.4097 mL
		5 mM	0.4964 mL	2.4819 mL
		10 mM	0.2482 mL	1.2410 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: ≥ 2.5 mg/mL (6.20 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.20 mM，饱和度未知) 的澄清溶液。 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 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% (20% SBE- β -CD in saline) Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.20 mM，饱和度未知) 的澄清溶液。 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 20% 的 SBE- β -CD 生理盐水中，混合均匀。			

	<p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (6.20 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 μL 25.0 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]. Liu H, et al. SKF-96365 blocks human ether-à-go-go-related gene potassium channels stably expressed in HEK 293 cells. Pharmacological Research. Pharmacol Res, 2016 Feb, 104:61-9.</p> <p>[2]. Jing Z, et al. SKF-96365 activates cytoprotective autophagy to delay apoptosis in colorectal cancer cells through inhibition of the calcium/CaMKIIγ/AKT-mediated pathway. Cancer Lett, 2016 Mar 28, 372(2):226-38.</p>
实验参考：	
Animal Administration	<p>Mice: Five to six-week-old female athymic BALB/c mice are inoculated into the right oter with HCT116 cells. When the diameter of the subcutaneous tumor reaches approximately 0.5 cm, animals are randomLy assigned to the vehicle, SKF-96365 alone, HCQ alone or SKF-96365+HCQ. SKF-96365 is applied (20 mg/kg) and HCQ is applied (60 mg/kg) daily for 14 successive days by i.p. injection. Tumor sizes and volume are determined. Eight mice are included in each group. Mice are sacrificed 24 h after the last treatment. The tumors are weighed and processed for western blot analysis or paraffin embedding[2].</p>
References	<p>[1]. Liu H, et al. SKF-96365 blocks human ether-à-go-go-related gene potassium channels stably expressed in HEK 293 cells. Pharmacological Research. Pharmacol Res, 2016 Feb, 104:61-9.</p> <p>[2]. Jing Z, et al. SKF-96365 activates cytoprotective autophagy to delay apoptosis in colorectal cancer cells through inhibition of the calcium/CaMKIIγ/AKT-mediated pathway. Cancer Lett, 2016 Mar 28, 372(2):226-38.</p>

源叶生物