

产品名称：**HO-3867**  
产品别名：**HO-3867**

生物活性：				
Description	HO-3867 is a selective and potent STAT3 inhibitor and shows good antitumor activity.			
IC <sub>50</sub> & Target	STAT3			
In Vitro	HO-3867 exhibit minimal toxicity toward noncancerous cells and tissues but induce apoptosis in ovarian cancer cells. HO-3867 inhibit cell migration/invasion and survival by inhibiting STAT3 phosphorylation[1]. BRCA-mutated ovarian cancer cells treated with HO-3867 exhibited a significant degree of apoptosis with elevated levels of cleaved caspase-3, caspase-7 and PARP[2]. HO-3867 shows good antitumor activity at the concentration of 2 μmol/L in PANC-1 and BXP-3 cells. Importantly, it is also found that HO-3867 treatment significantly induced reactive oxygen species (ROS) production in human pancreatic cancer cell lines, inducing PANC-1 and BXP-3 cells[3].			
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : ≥ 32 mg/mL (68.88 mM)</b> <b>H<sub>2</sub>O : &lt; 0.1 mg/mL (insoluble)</b>  * "≥" means soluble, but saturation unknown.			
	<div>Preparing Stock Solutions</div>	<div>Solvent Mass Concentration</div>	1 mg	5 mg
		1 mM	2.1526 mL	10.7631 mL
		5 mM	0.4305 mL	2.1526 mL
		10 mM	0.2153 mL	1.0763 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。  <b>In Vivo:</b>  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 <b>In Vitro</b> 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% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.38 mM); Suspended solution; Need ultrasonic  此方案可获得 2.5 mg/mL (5.38 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 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。			
	2.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution  此方案可获得 ≥ 2.5 mg/mL (5.38 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>以 1 mL 工作液为例，取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中，混合均匀。</p>
References	<p>[1]. Rath KS et al. HO-3867, a safe STAT3 inhibitor, is selectively cytotoxic to ovarian cancer. <u>Cancer Res.</u> 2014 Apr 15;74(8):2316-27.</p> <p>[2]. Hu Y, et al. A novel STAT3 inhibitor HO-3867 induces cell apoptosis by reactive oxygen species-dependent endoplasmic reticulum stress in human pancreatic cancer cells. <u>Anticancer Drugs.</u> 2017 Apr;28(4):392-400.</p> <p>[3]. Tierney BJ et al. HO-3867, a STAT3 inhibitor induces apoptosis by inactivation of STAT3 activity in BRCA1-mutated ovarian cancer cells. <u>Cancer Biol Ther.</u> 2012 Jul;13(9):766-75</p>



源叶生物