



上海源叶生物科技有限公司
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产品名称: 美登醇
产品别名: Maytansinol; Ansamitocin P-0

生物活性:				
Description	Maytansinol inhibits microtubule assembly and induces microtubule disassembly in vitro. Target: Microtubule/Tubulin in vitro: Maytansinol disrupts the mitotic spindle and prevents mitotic exit in Drosophila. Maytansinol reduces the growth and/or survival of HCT116 cells in a dose-dependent manner and that the effect was more severe for p53+/+ than for p53-/- cells at both low and high doses. Maytansinol inhibits the growth of HCT116 human colon cancer cells. Maytansinol induces apoptosis in imaginal discs of wild-type larvae but not p53 mutant larvae. This parallels the finding in human HCT116 cells, in which Maytansinol was more effective when p53 was present, at least at some doses. Maytansinol induces apoptosis in imaginal discs of wild-type larvae but not p53 mutant larvae at 24 hours after exposure to drug.			
	In Vitro: DMSO : ≥ 35 mg/mL (61.94 mM) <small>* "≥" means soluble, but saturation unknown.</small>			
Solvent&Solubility	Preparing Stock Solutions	Solvent	Mass	Concentration
			1 mg	5 mg
			10 mg	
		1 mM	1.7697 mL	8.8486 mL
		5 mM	0.3539 mL	1.7697 mL
		10 mM	0.1770 mL	0.8849 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: ≥ 2.08 mg/mL (3.68 mM); Clear solution 此方案可获得 ≥ 2.08 mg/mL (3.68 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 20.8 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。			



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	<p>3.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.08 mg/mL (3.68 mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (3.68 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 20.8 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]. Edwards A, et al. Combinatorial effect of maytansinol and radiation in Drosophila and human cancer cells. Dis Model Mech. 2011 Jul;4(4):496-503.</p>



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