



上海源叶生物科技有限公司
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产品名称: iCRT-14
产品别名: iCRT 14

生物活性:					
Description	iCRT 14 is a novel potent inhibitor of β -catenin-responsive transcription (CRT), with IC ₅₀ of 40.3 nM against Wnt responsive STF16 luciferase.				
IC ₅₀ & Target	IC50: 40.3 nM (Wnt responsive STF16 luciferase)[1]				
In Vitro	iCRT14 can interfere with TCF binding to DNA in addition to its ability to influence TCF- β -cat interaction[1]. iCRT14 (10, 25, 50 μ M) effectively inhibits cell proliferation in BT-549 cells in a dose- and time-dependent manner, but still less potent than iCRT3[2].				
In Vivo	iCRT14 (50 mg/kg, i.p.) markedly decreases CycD1, proliferation of the tumors in HCT116 xenografts[1].				
Solvent&Solubility	In Vitro: DMSO : ≥ 29 mg/mL (77.24 mM) * " \geq " means soluble, but saturation unknown.				
	<div>Preparing Stock Solutions</div>	<div>Solvent Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	2.6635 mL	13.3177 mL	26.6354 mL
		5 mM	0.5327 mL	2.6635 mL	5.3271 mL
		10 mM	0.2664 mL	1.3318 mL	2.6635 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 (6.66 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.66 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。				
	References	[1]. Gonsalves FC, et al. An RNAi-based chemical genetic screen identifies three small-molecule inhibitors of the Wnt/wingless signaling pathway. Proc Natl Acad Sci USA. 2011 Apr 12;108(15):5954-63. [2]. Bilir B, et al. Wnt signaling blockage inhibits cell proliferation and migration, and induces apoptosis in triple-negative breast cancer cells. J Transl Med. 2013 Nov 4;11:280.			
	实验参考:				
		Cells are seeded at 20,000 cells/well into 96-well plates. After overnight incubation, cells are treated with			



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Cell Assay	DMSO or each Wnt inhibitor (iCRT-3, 75 μ M; iCRT-5, 200 μ M; iCRT-14, 50 μ M; IWP-4, 5 μ M and XAV-939, 10 μ M) for 48 hours. Cell viability is determined using the Cell Titer-Glo luminescent cell viability assay kit. Luminescence is measured using FLUOstar microplate reader. All treatments are performed in triplicate, and each experiment is repeated three times. [2]
References	[1]. Gonsalves FC, et al. An RNAi-based chemical genetic screen identifies three small-molecule inhibitors of the Wnt/wingless signaling pathway. Proc Natl Acad Sci USA. 2011 Apr 12;108(15):5954-63. [2]. Bilir B, et al. Wnt signaling blockage inhibits cell proliferation and migration, and induces apoptosis in triple-negative breast cancer cells. J Transl Med. 2013 Nov 4;11:280.



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