

产品名称: NSC59984

产品别名: NSC59984

生物活性:				
Description	NSC59984 induces mutant p53 protein degradation via MDM2 and the ubiquitin-proteasome pathway[1]. NSC59984 acts by targeting GOF-mutant p53 and stimulates p73 to restore the p53 pathway signaling[2].			
In Vitro	NSC59984 specifically restores p53 pathway signaling in mutant p53-expressing human colorectal cancer cells. NSC59984 induces cell death in tumor cells but not normal cells with little or no genotoxicity. NSC59984 induces mutant p53 protein degradation through MDM2-mediated ubiquitination in cancer cells. NSC59984 restores p53 pathway signaling through activation of p73. NSC59984 induces p73-dependent cell apoptosis in cancer. The EC50 of NSC59984 in most cancer cells is significantly lower than those of normal cells, with EC50 of 8.38 μ M for p53-null HCT116 cells[1].			
In Vivo	NSC59984 synergizes with CPT11 to induce cell death in mutant p53-expressing colorectal cancer cells and inhibits mutant p53-associated colon tumor xenograft growth in a p73-dependent manner[1].			
Solvent&Solubility	In Vitro: DMSO : 33.33 mg/mL (125.65 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg
		1 mM	3.7697 mL	18.8487 mL
		5 mM	0.7539 mL	3.7697 mL
		10 mM	0.3770 mL	1.8849 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: $\geq$ 2.5 mg/mL (9.42 mM); Clear solution 此方案可获得 $\geq$ 2.5 mg/mL (9.42 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: $\geq$ 2.5 mg/mL (9.42 mM); Clear solution 此方案可获得 $\geq$ 2.5 mg/mL (9.42 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 生理盐水水溶液中，混合均匀。			
	[1]. Zhang S, et al. Small-Molecule NSC59984 Restores p53 Pathway Signaling and Antitumor Effects			

References

- against Colorectal Cancer via p73 Activation and Degradation of Mutant p53. Cancer Res. 2015 Sep 15;75(18):3842-52.
- [2]. Zhang S, et al. Small-Molecule NSC59984 Restores p53 Pathway Signaling and Antitumor Effects against Colorectal Cancer via p73 Activation and Degradation of Mutant p53. Cancer Res. 2015 Sep 15;75(18):3842-52.



源叶生物