



上海源叶生物科技有限公司
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产品名称: 1-[4-氨基-7-(3-羟基丙基)-5-(4-甲基苯基)-7H-吡咯并[2,3-D]嘧啶-6-基]-2-氯乙酮
产品别名: CMK

生物活性:				
Description	CMK is a RSK2 kinase inhibitor which exhibits similar potency but less chemical stability compared with FMK.			
In Vitro	CMK inhibits the growth of Cdc5 (L158G) with IC ₅₀ of 36 nM, greater than 30 μM for wild type Cdc5. CMK exhibits a concentration-dependent first cell cycle mitotic arrest in the cdc5-as1 strain with an IC ₅₀ of 1.1 μM. CMK inhibition of Cdc5 (L158G) leads to a first cell cycle anaphase arrest and delay in anaphase spindle migration[1].			
Solvent&Solubility	In Vitro: DMSO : 150 mg/mL (418.04 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	2.7869 mL	13.9346 mL
		5 mM	0.5574 mL	2.7869 mL
		10 mM	0.2787 mL	1.3935 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 (stored under nitrogen)。-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 (6.97 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.97 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 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。 2.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (6.97 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.97 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。 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。			
References	[1]. Snead JL, et al. A coupled chemical-genetic and bioinformatic approach to Polo-like kinase pathway exploration. Chem Biol. 2007 Nov;14(11):1261-72.			



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实验参考:

Kinase Assay	For Cdc5 kinase assays, Spc72-TAP is isolated from cell extract by pulldown with IgG sepharose or rabbit IgG coupled to M-270 epoxy dynabeads and incubated in kinase buffer (25 mM HEPES, pH 8.0, 60 mM KCl, 15 mM MnCl ₂ , 100 µg/mL BSA, 80 nM microcystin, 1mM DTT, 100 µM 200 µCi/mL [γ- ³² P]ATP) in the absence or presence of 100 ng purified baculovirus expressed 6xHis-Cdc5. ³² P incorporation is visualized on a Typhoon PhosphorImager, and images are processed using ImageQuant software. [1]
References	[1]. Snead JL, et al. A coupled chemical-genetic and bioinformatic approach to Polo-like kinase pathway exploration. Chem Biol. 2007 Nov;14(11):1261-72.



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