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产品名称: **KH-CB19**
 产品别名: **KH-CB19**

生物活性:					
Description	KH-CB19 is a potent and highly specific inhibitor of the CDC2-like kinase isoforms 1 and 4 (CLK1/CLK4). IC50 value: 20 nM (CLK1) [1] Target: CLK1/4 inhibitor in vitro: KH-CB19 showed potent inhibition of CLK1 with an IC50 of 20 nM, and for the pure isomer KH-CB19, almost 100-fold selectivity against the CLK3 isoform. Pretreatment of cells with KH-CB19 or TG003 led to a reduction of the TNF- α -induced increase in phosphorylation of all analyzed SR proteins compared with TNF- α -stimulated controls. Treatment of resting cells with 10 μ M KH-CB19 significantly reduced the basal expression of fITF as well as asHTF [1].				
IC₅₀ & Target	CLK1	CLK3	DYRK1A		
	19.7 nM (IC ₅₀)	530 nM (IC ₅₀)	55.2 nM (IC ₅₀)		
Solvent&Solubility	In Vitro: DMSO : \geq 50 mg/mL (147.85 mM) H ₂ O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.				
		Solvent	Mass		
		Concentration	1 mg	5 mg	10 mg
	Preparing	1 mM	2.9569 mL	14.7846 mL	29.5692 mL
	Stock Solutions	5 mM	0.5914 mL	2.9569 mL	5.9138 mL
	10 mM	0.2957 mL	1.4785 mL	2.9569 mL	
<p>*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。</p> <p>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。</p> <p>In Vivo:</p> <p>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:</p> <p>——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</p> <p>1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p> <p>Solubility: \geq 2.5 mg/mL (7.39 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (7.39 mM, 饱和度未知) 的澄清溶液。</p> <p>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。</p> <p>2.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: \geq 2.5 mg/mL (7.39 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (7.39 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>					



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	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 玉米油中, 混合均匀。
References	[1]. Fedorov O, et al. Specific CLK inhibitors from a novel chemotype for regulation of alternative splicing. Chem Biol. 2011 Jan 28;18(1):67-76. [2]. Grant SK, et al. Kinase inhibition that hinges on halogen bonds. Chem Biol. 2011 Jan 28;18(1):3-4.



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