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产品名称: Y16
产品别名: Y16

生物活性:					
Description		Y16 is a specific inhibitor of Leukemia-associated Rho guanine nucleotide exchange factor (LARG) with a K_d value of 76 nM. Y16 is active in blocking the interaction of LARG and related G-protein-coupled Rho GEFs with RhoA. Y16 shows no detectable effect on other diffuse B-cell lymphoma (Dbl) family Rho GEFs, Rho effectors, or a RhoGAP[1].			
IC ₅₀ & Target		Kd: 76 nM (LARG)[1]			
In Vitro	Y16 (10-30 μ M; 24 hours; NIH 3T3 cells) could inhibit RhoA-GTP formation induced by serum dose dependently and is specific for RhoA[1]. Y16 (10-30 μ M; 24 hours; NIH 3T3 cells) efficiently inhibits serum or SDF-1 α -induced phospho-MLC and phospho-FAK formation, which are downstream of RhoA[1].				
	Cell Viability Assay[1]				
	Cell Line:	NIH 3T3 cells			
	Concentration:	10 μ M, 30 μ M			
	Incubation Time:	24 hours			
	Result:	Inhibited RhoA-GTP formation induced by serum dose dependently and was specific for RhoA.			
	Western Blot Analysis[1]				
	Cell Line:	NIH 3T3 cells			
	Concentration:	10 μ M, 30 μ M			
	Incubation Time:	24 hours			
	Result:	Inhibited serum or SDF-1 α -induced phospho-MLC and phospho-FAK formation, which were downstream of RhoA.			
Solvent&Solubility	In Vitro: DMSO : 25 mg/mL (65.03 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)				
	Preparing Stock Solutions	<div>Solvent Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	2.6013 mL	13.0063 mL	26.0125 mL
		5 mM	0.5203 mL	2.6013 mL	5.2025 mL
		10 mM	0.2601 mL	1.3006 mL	2.6013 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				



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	<p>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: 2.5 mg/mL (6.50 mM); Suspended solution; Need ultrasonic</p> <p>此方案可获得 2.5 mg/mL (6.50 mM)的均匀悬浊液, 悬浊液可用于口服和腹腔注射。</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 (6.50 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (6.50 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 25.0 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]. Shang X, et al. Small-molecule inhibitors targeting G-protein-coupled Rho guanine nucleotide exchange factors. Proc Natl Acad Sci U S A. 2013 Feb 19;110(8):3155-60.</p>

源叶生物