



上海源叶生物科技有限公司
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产品名称: **RIP2 kinase inhibitor 2**
产品别名: **RIP2 kinase inhibitor 2**

生物活性:				
Description	RIP2 kinase inhibitor 2 is a receptor interacting protein-2 (RIP2) kinase inhibitor extracted from patent WO/2014043437 A1, compound example 9.			
IC₅₀ & Target	RIP2 Kinase ^[1]			
In Vitro	RIP2 kinase inhibitor 2 is a novel prodrug of a quinazolyamine that inhibits RIP2 kinase. Receptor interacting protein-2 (RIP2) kinase is a TKL family serine/threonine protein kinase involved in innate immune signaling. Following activation, RIP2 kinase associates with NOD1 or NOD2 and appears to function principally as a molecular scaffold to bring together other kinases (TAK1, IKKα/β/γ) involved in NF-κB and mitogen-activated protein kinase activation ^[1] .			
Solvent&Solubility	In Vitro: DMSO : 5 mg/mL (11.56 mM; Need ultrasonic)			
		Solvent	Mass	
		Concentration		
	Preparing	1 mM	2.3119 mL	11.5596 mL
	Stock Solutions	5 mM	0.4624 mL	2.3119 mL
		10 mM	0.2312 mL	1.1560 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: ≥ 0.5 mg/mL (1.16 mM); Clear solution 此方案可获得 ≥ 0.5 mg/mL (1.16 mM，饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 5.0 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。			



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	3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 0.5 mg/mL (1.16 mM); Clear solution 此方案可获得 ≥ 0.5 mg/mL (1.16 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 5.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Linda N. Casillas, et al. Amino-quinolines as kinase inhibitors. PCT Int. Appl. (2014), WO 2014043437 A1 20140320.
实验参考:	
Animal Administration	Rats[1] Rats are orally pre-dosed with the RIP2 kinase inhibitor 2, at doses of 0.016, 0.16 and 1.6 mg/kg (n=8 rats/group), followed by dosing with L18-MDP (50 μg/rat) 0.25 hours after pre-dosing with the compound. The IL8 cytokine levels and percentage levels are calculated as the mean$\pm$standard error of the mean (n=8 rats/group).
References	[1]. Linda N. Casillas, et al. Amino-quinolines as kinase inhibitors. PCT Int. Appl. (2014), WO 2014043437 A1 20140320.

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