



上海源叶生物科技有限公司
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产品名称: **GSK2795039**
产品别名: **GSK2795039**

生物活性:

Description	GSK2795039 is a NADPH oxidase 2 (NOX2) inhibitor with a mean pIC ₅₀ of 6 in different cell-free assays. GSK2795039 inhibits reactive oxygen species (ROS) production and NADPH consumption ^[1] . GSK2795039 reduces apoptosis ^[2] .				
In Vitro	GSK2795039 (25 μM; 24 hours) reduces the combinatory effect of FeSO4 and LPS-increased levels of apoptosis and reduced the presence of caspase-3-positive PC12 cells ^[2] .				
	Apoptosis Analysis ^[2]				
	Cell Line:	PC12 cells			
	Concentration:	25 μM			
	Incubation Time:	24 hours			
	Result:	Reduced apoptosis among PC12 cells.			
In Vivo	GSK2795039 (intraperitoneal injection; 100 mg/kg; 1 hour before) decreases activity in a murine model of acute pancreatitis, reducing the levels of serum amylase triggered by systemic injection of cerulein ^[1] .				
	Animal Model:	C57BL6 mice ^[1]			
	Dosage:	100 mg/kg			
	Administration:	Intraperitoneal injection; 100 mg/kg; 1 hour before			
	Result:	Caused 50% reduction in the level of serum amylase activity.			
Solvent&Solubility	In Vitro:				
	DMSO : ≥ 32 mg/mL (71.02 mM)				
	* "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.2195 mL	11.0973 mL	22.1946 mL
		5 mM	0.4439 mL	2.2195 mL	4.4389 mL
		10 mM	0.2219 mL	1.1097 mL	2.2195 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: ≥ 2.5 mg/mL (5.55 mM); Clear solution					
此方案可获得 ≥ 2.5 mg/mL (5.55 mM, 饱和度未知) 的澄清溶液。					



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	<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 \rightarrow 90% corn oil</p> <p>Solubility: \geq 2.5 mg/mL (5.55 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (5.55 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]. Hirano K, et al. Discovery of GSK2795039, a Novel Small Molecule NADPH Oxidase 2 Inhibitor. Antioxid Redox Signal. 2015 Aug 10;23(5):358-74.</p> <p>[2]. Yauger YJ, et al. Iron accentuated reactive oxygen species release by NADPH oxidase in activated microglia contributes to oxidative stress in vitro. J Neuroinflammation. 2019 Feb 18;16(1):41.</p>

源叶生物