

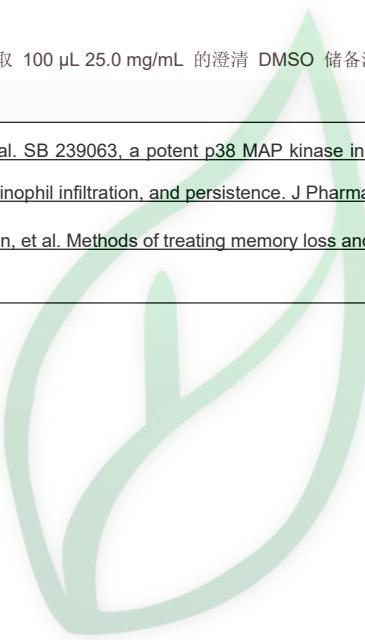
产品名称: SB 239063

产品别名: SB 239063

生物活性:

Description	SB 239063 is a potent, selective and orally active p38 MAPK inhibitor, exhibits an IC50 of 44 nM for recombinant purified human p38 α , with equipotent inhibitory activity against p38 α and p38 β . SB 239063 has no effect on p38 γ or p38 δ . With anti-asthma activity and also be used to enhance memory which is impaired due to aging or medical conditions, such as, AD[1][2].				
IC ₅₀ & Target	IC50: 44 nM (Human p38 α)[1]				
In Vitro	<p>SB 239063 (0.1–10 μM ; 29 hours, 47 hours) increases apoptosis of eosinophils in a dose-related in the presence of 10 pM IL-5 at every time point from 21 hours onwards[1].</p> <p>SB 239063 potently inhibits IL-1 and TNF-α production in LPS-stimulated human peripheral blood monocytes with IC50 values of 120 nM and 350 nM, respectively[1].</p>				
	Apoptosis Analysis[1]				
	Cell Line:	Eosinophils (guinea pig BALs)			
	Concentration:	0.1 μ M, 1 μ M, 10 μ M			
	Incubation Time:	29 hours, 47 hours			
	Result:	Increased apoptosis of eosinophils in a dose-related in the presence of 10 pM IL-5 at every time point from 21 hours onwards.			
In Vivo	<p>SB 239063 (12 mg/kg; p.o.; 1 hour before and 4 hours after OA challenge; b.i.d. for 3 days) significantly inhibits the resultant antigen-induced airway eosinophilia[1].</p> <p>SB 239063 (12 mg/kg; p.o.) almost abolishes ovalbumin (OA)-induced airway eosinophilia (~ 93% inhibition) by inhalation[1].</p> <p>SB 239063 is a potent inhibitor of LPS-induced TNF-alpha production in the mouse peritoneal cavity with an EC50 of 5.8 mg/kg (2.8–10.3; 95% CL)[1].</p>				
	Animal Model:	Male BALB/c mice (18–20 g)[1]			
	Dosage:	12 mg/kg			
	Administration:	Oral administration; 1 h before and 4 h after OA challenge; bis in die for 3 days			
	Result:	Significantly inhibited the resultant antigen-induced airway eosinophilia.			
	In Vitro: DMSO : 33.33 mg/mL (90.47 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)				
	Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
		1 mM	2.7144 mL	13.5722 mL	27.1444 mL
		5 mM	0.5429 mL	2.7144 mL	5.4289 mL
		10 mM	0.2714 mL	1.3572 mL	2.7144 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:				

<p>Solvent&Solubility</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 Solubility: ≥ 2.5 mg/mL (6.79 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.79 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。</p> <p>2.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (6.79 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.79 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。</p>
<p>References</p> <p>[1]. Underwood DC, et al. SB 239063, a potent p38 MAP kinase inhibitor, reduces inflammatory cytokine production, airways eosinophil infiltration, and persistence. J Pharmacol Exp Ther. 2000 Apr;293(1):281-8. [2]. Matthew Huentelman, et al. Methods of treating memory loss and enhancing memory performance. US 20120245188 A1.</p>



源叶生物