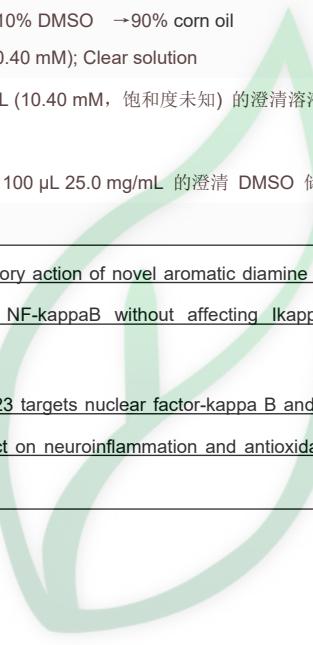


产品名称: 4-甲基-N1-(3-苯丙基)-1,2-苯二胺

产品别名: JSH-23

生物活性:								
Description	JSH-23 is an NF-κB inhibitor which inhibits NF-κB transcriptional activity with an IC ₅₀ of 7.1 μM in lipopolysaccharide (LPS)-stimulated macrophages RAW 264.7. JSH-23 inhibits nuclear translocation of NF-κB p65 without affecting IκBα degradation[1].							
IC₅₀ & Target [1]	NF-κB 7.1 μM (IC ₅₀ , in RAW 264.7 cells)							
In Vitro								
JSH-2 (1-300 μM; 24 hours) at <100 μM does not show significant cytotoxic effects on the RAW 264.7 cells[1]. Nuclear amount of NF-κB p65 is markedly increased upon exposure to LPS for 1 h. Treatment of JSH-23 (30 μM; 1 hours) to LPS- stimulated RAW 264.7 cells decreases nuclear content of NF-κB p65 in a dose-dependent manner[1].								
Cell Cytotoxicity Assay[1]								
Cell Line:		Macrophages RAW 264.7						
Concentration:		1, 3, 10, 30, 100, 300 μM						
Incubation Time:		24 hours						
Result:		Did not show significant cytotoxic effects at <100 μM.						
Western Blot Analysis[1]								
Cell Line:		Macrophages RAW 264.7 with LPS-stimulated						
Concentration:		30 μM						
Incubation Time:		1 hour						
Result:		Decreased nuclear content of NF-κB p65 in a dose-dependent manner, corresponding to 49±4% inhibition at 3 μM, 75±7% at 10 μM and 95±8% at 30 μM.						
In Vivo								
JSH-23 (1 mg/kg, 3 mg/kg; orally administered; daily; for 2 weeks) significantly reverses the nerve conduction and nerve blood flow deficits seen in diabetic rats[1].								
Animal Model:		Male Sprague Dawley diabetic rats (250-270 g)[1]						
Dosage:		1 mg/kg, 3 mg/kg						
Administration:		Orally administered; daily; for 2 weeks						
Result:		Produced significant improvement in motor nerve conduction velocity (MNCV).						
In Vitro:								
DMSO : ≥ 56 mg/mL (233.00 mM)								
* "≥" means soluble, but saturation unknown.								
Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg				
	1 mM	4.1608 mL	20.8039 mL	41.6077 mL				
	5 mM	0.8322 mL	4.1608 mL	8.3215 mL				
	10 mM	0.4161 mL	2.0804 mL	4.1608 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。								

Solvent&Solubility	<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: ≥ 2.5 mg/mL (10.40 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (10.40 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: ≥ 2.5 mg/mL (10.40 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (10.40 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]. Shin HM, et al. Inhibitory action of novel aromatic diamine compound on lipopolysaccharide-induced nuclear translocation of NF-kappaB without affecting IkappaB degradation. FEBS Lett. 2004 Jul 30;571(1-3):50-4.</p> <p>[2]. Kumar A, et al. JSH-23 targets nuclear factor-kappa B and reverses various deficits in experimental diabetic neuropathy: effect on neuroinflammation and antioxidant defence. Diabetes Obes Metab. 2011 Aug;13(8):750-8.</p>



源叶生物