



上海源叶生物科技有限公司
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产品名称: 尼多克罗

产品别名: Nedocromil; 奈多罗米; FPL 59002

生物活性:					
Description	Nedocromil suppresses the action or formation of multiple mediators, including histamine, leukotriene C ₄ (LTC ₄), and prostaglandin D ₂ (PGD ₂).				
IC ₅₀ & Target	LTC ₄	PGD ₂	Histamine		
In Vitro	Nedocromil inhibits the release of histamine, LTC ₄ , and PGD ₂ from mast cells challenged with antigen (with IC ₃₀ values of 2.1 μM, 2.3 μM, and 1.9 μM, respectively) and with anti-human IgE (IC ₃₀ values of 4.7 μM, 1.3 μM, and 1.3 μM, respectively)[1].				
In Vivo	Nedocromil-treated diabetic mice show significantly improved heart function compared with controls. The contractility and relaxation forces show similar improvements. However, the cardiac function of Nedocromil-treated diabetic mice remains significantly impaired when compared with normal mice. Nedocromil can significantly improve cardiac function in mice with diabetic cardiomyopathy, but the treatment cannot restore normal function[2].				
Solvent&Solubility	In Vitro: DMSO : 16.67 mg/mL (44.89 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.6929 mL	13.4647 mL	26.9295 mL
		5 mM	0.5386 mL	2.6930 mL	5.3859 mL
		10 mM	0.2693 mL	1.3465 mL	2.6930 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。					
References	[1]. Wells E, et al. Characterization of primate bronchoalveolar mast cells. II. Inhibition of histamine, LTC₄, and PGD₂ release from primate bronchoalveolar mast cells and a comparison with rat peritoneal mastcells. J Immunol. 1986 Dec 15;137(12):3941-5. [2]. Myocardial remodeling in diabetic cardiomyopathy associated with cardiac mast cell activation. Huang ZG, et al. PLoS One. 2013;8(3):e60827.				
实验参考:					
Animal Administration	Mice[2] 8-12 weeks old C57/BL6 male mice between 23-25 g receive intraperitoneal (i.p.) injections of 50 mg/kg Streptozotocin (STZ), dissolved in 100 mM citrate buffer pH 4.5, for five consecutive days. Diabetic mice (13-week-old) are randomly divided into three groups: 1) untreated group; 2) Nedocromil group, with Nedocromil released at the rate of 30 mg/kg per day from a subcutaneous (s.c.) pellet implantation; and vehicle group, with an inactive pellet implanted. Normal mice (non-diabetic) and normal mice that receive Nedocromil (30 mg/kg per day) are also included in this study for comparison. All sample groups included 15 mice (n=15)[2].				



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