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产品名称: 洛度沙胺氨丁三醇

产品别名: **Lodoxamide (tromethamine); U 42585 E**

生物活性:				
Description	Lodoxamide tromethamine (U 42585 E) is a medication for the treatment of prophylaxis of mast cell-mediated allergic disease.			
In Vitro	lodoxamide inhibits compound 48/80-induced histamine release and ionophore-induced ⁴⁵ Ca influx with associated histamine release in purified rat peritoneal mast cells[1].			
In Vivo	Lodoxamide has been demonstrated to have cromolyn-like activity when studied in the rat peritoneal mast cell assay (PCA) model ³ and in Ascaris antigen-sensitized rhesus monkeys. When given intravenously, orally, or intrabronchially by aerosol, lodoxamide significantly inhibits the increased respiratory frequency and decreased tidal volume induced by antigen challenge in Ascaris-sensitized, anesthetized rhesus monkeys[1]. Addition of lodoxamide tromethamine to Euro-Collins or University of Wisconsin solution results in a marked decrease in lung reperfusion injury as demonstrated by increased oxygenation, decreased microvascular permeability, and increased compliance[2]. Patients treated with lodoxamide tromethamine demonstrate an improvement in daytime breathing difficulty, cough, sputum production, and sleep[3].			
Solvent&Solubility	In Vitro: DMSO : 20 mg/mL (36.11 mM; Need ultrasonic and warming)			
	Preparing Stock Solutions	Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
		1 mM	1.8054 mL	9.0269 mL
		5 mM	0.3611 mL	1.8054 mL
		10 mM	0.1805 mL	0.9027 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: ——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: ≥ 2.08 mg/mL (3.76 mM); Clear solution 此方案可获得 ≥ 2.08 mg/mL (3.76 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 20.8 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。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline)			



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	<p>Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (3.76 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 μL 20.8 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。</p> <p>3.请依序添加每种溶剂: 10% DMSO \rightarrow 90% corn oil</p> <p>Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution</p> <p>此方案可获得 ≥ 2.08 mg/mL (3.76 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 20.8 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]. Watt GD, et al. Protective effect of lodoxamide tromethamine on allergen inhalation challenge. J Allergy Clin Immunol. 1980 Oct;66(4):286-94.</p> <p>[2]. Barr ML, et al. Addition of a mast cell stabilizing compound to organ preservation solutions decreases lung reperfusion injury. J Thorac Cardiovasc Surg. 1998 Mar;115(3):631-6; discussion 636-7.</p> <p>[3]. Mann JS, et al. Inhaled lodoxamide tromethamine in the treatment of perennial asthma: a double-blind placebo-controlled study. J Allergy Clin Immunol. 1985 Jul;76(1):83-90.</p>

源叶生物