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产品名称: 洛度沙胺

产品别名: **Lodoxamide** ; 洛草氨酸

生物活性:				
Description	Lodoxamide is an antiallergic compound acting as a mast-cell stabilizer for the treatment of asthma and allergic conjunctivitis.			
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]. The chemotactic response of eosinophils to fMLP as well as to IL-5 is significant and dose-dependent inhibited by Lodoxamide. Lodoxamide is also able to strongly inhibit the release of eosinophil peroxidase after IgA-dependent activation and, to a lesser extent, the release of eosinophil cationic protein and eosinophil-derived neurotoxin[2].			
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 <i>Ascaris</i> 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 <i>Ascaris</i> -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[3]. Patients treated with lodoxamide tromethamine demonstrate an improvement in daytime breathing difficulty, cough, sputum production, and sleep[4].			
Solvent&Solubility	In Vitro: DMSO : ≥ 30 mg/mL (96.27 mM) * "≥" means soluble, but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	3.2089 mL	16.0447 mL
	Stock Solutions	5 mM	0.6418 mL	3.2089 mL
		10 mM	0.3209 mL	1.6045 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。			
References	[1]. Watt GD, et al. Protective effect of lodoxamide tromethamine on allergen inhalation challenge. J Allergy Clin Immunol. 1980 Oct;66(4):286-94. [2]. Capron M, et al. Inhibitory effects of lodoxamide on eosinophil activation. Int Arch Allergy Immunol. 1998 Jun;116(2):140-6. [3]. Barr ML, et al. Addition of a mast cell stabilizing compound to organ preservation solutions decreases			



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[4]. 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.



源叶生物