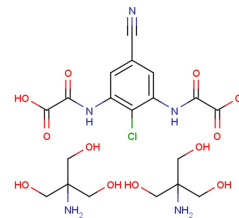


Lodoxamide tromethamine

Chemical Properties

CAS No.:	63610-09-3
Formula:	C ₁₉ H ₂₈ ClN ₅ O ₁₂
Molecular Weight:	553.9
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Lodoxamide tromethamine is a medication of mast cell-mediated allergic disease. It is used for the treatment of prophylaxis.
Targets(IC ₅₀)	Others: None
In vitro	In purified rat peritoneal mast cells, lodoxamide inhibits compound 48/80-induced histamine release and ionophore-induced ⁴⁵ Ca influx with associated histamine release[1].
In vivo	Lodoxamide significantly inhibits the increased respiratory frequency and decreased tidal volume induced by antigen challenge in Ascaris-sensitized when given intravenously, orally, or intrabronchially by aerosol. 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. 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].

Solubility Information

Solubility	DMSO: 20 mg/mL (36.11 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.805 mL	9.027 mL	18.054 mL
5 mM	0.361 mL	1.805 mL	3.611 mL
10 mM	0.181 mL	0.903 mL	1.805 mL
50 mM	0.036 mL	0.181 mL	0.361 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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. 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.
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.

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