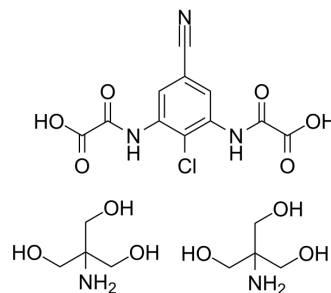


## Lodoxamide tromethamine

<b>Cat. No.:</b>	HY-16289
<b>CAS No.:</b>	63610-09-3
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>28</sub> ClN <sub>5</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	553.9
<b>Target:</b>	Histamine Receptor
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 20 mg/mL (36.11 mM; Need ultrasonic and warming)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.8054 mL	9.0269 mL	18.0538 mL
		<b>5 mM</b>		0.3611 mL	1.8054 mL	3.6108 mL
	<b>10 mM</b>		0.1805 mL	0.9027 mL	1.8054 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (3.76 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lodoxamide tromethamine (U-42585E) is a medication for the treatment of prophylaxis of mast cell-mediated allergic disease.
<b>In Vitro</b>	lodoxamide inhibits compound 48/80-induced histamine release and ionophore-induced <sup>45</sup> Ca influx with associated histamine release in purified rat peritoneal mast cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Lodoxamide has been demonstrated to have cromolyn-like activity when studied in the rat peritoneal mast cell assay (PCA) model <sup>3</sup> and in Ascaris antigen-sensitized rhesus monkeys. When given intravenously, orally, or intrabronchially by aerosol,

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lodoxamide significantly inhibits the increased respiratory frequency and decreased tidal volume induced by antigen challenge in Ascaris-sensitized, anesthetized rhesus monkeys<sup>[1]</sup>. 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<sup>[2]</sup>. Patients treated with lodoxamide tromethamine demonstrate an improvement in daytime breathing difficulty, cough, sputum production, and sleep<sup>[3]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [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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**Caution: Product has not been fully validated for medical applications. For research use only.**

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