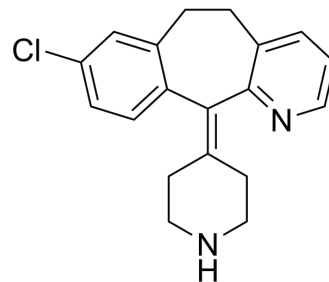


Desloratadine

Cat. No.:	HY-B0539		
CAS No.:	100643-71-8		
Molecular Formula:	C ₁₉ H ₁₉ ClN ₂		
Molecular Weight:	310.82		
Target:	Histamine Receptor; Endogenous Metabolite		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (80.43 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2173 mL	16.0865 mL	32.1730 mL
	5 mM	0.6435 mL	3.2173 mL	6.4346 mL
	10 mM	0.3217 mL	1.6086 mL	3.2173 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (8.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (8.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (8.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Desloratadine (Sch34117) is the orally active major metabolite of the non-sedating H₁-antihistamine Loratadine. Desloratadine is a selective H₁-receptor antagonist that has anti-allergic and anti-inflammatory activities^{[1][2]}.

IC₅₀ & Target

H₁ Receptor

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Nat Commun. 2022 Nov 10;13(1):6796.
- J Med Chem. 2021 Mar 11;64(5):2725-2738.
- iScience. 5 January 2022, 103731.
- PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.
- J Clin Psychopharmacol. 2022 Jun 2.

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- [1]. Geha, R.S. and E.O. Meltzer, Desloratadine: A new, nonsedating, oral antihistamine. J Allergy Clin Immunol, 2001. 107(4): p. 751-62.
- [2]. Schroeder, J.T., et al., Inhibition of cytokine generation and mediator release by human basophils treated with desloratadine. Clin Exp Allergy, 2001. 31(9): p. 1369-77.
- [3]. Anthes, J.C., et al., Biochemical characterization of desloratadine, a potent antagonist of the human histamine H(1) receptor. Eur J Pharmacol, 2002. 449(3): p. 229-37.
- [4]. McClellan K, et al. Desloratadine. Drugs. 2001;61(6):789-797.
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Caution: Product has not been fully validated for medical applications. For research use only.

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