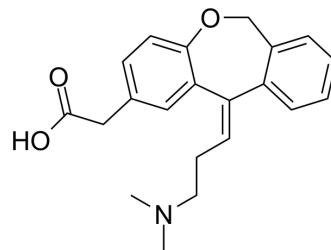


Olopatadine

Cat. No.:	HY-W062109
CAS No.:	113806-05-6
Molecular Formula:	C ₂₁ H ₂₃ NO ₃
Molecular Weight:	337
Target:	Endogenous Metabolite; Histamine Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Olopatadine is an orally active and selective histamine 1 (H ₁) receptor antagonist and a mast cell stabilizer. Olopatadine prevents immunologically stimulated pro-inflammatory mediator release from human conjunctival mast cells. Olopatadine can be used for researching allergic conjunctivitis ^{[1][2]} .
IC ₅₀ & Target	H ₁ Receptor
In Vitro	Olopatadine inhibits anti-IgE antibody-mediated release of TNF-α from human conjunctival mast cells, and significantly decreases the mast cell supernatant-mediated upregulation of ICAM (intercellular adhesion molecule)-1 on human conjunctival epithelial cells in vitro ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kam KW, et al. Topical Olopatadine in the Treatment of Allergic Conjunctivitis: A Systematic Review and Meta-analysis. *Ocul Immunol Inflamm*. 2017 Oct;25(5):663-677.
- [2]. Leonardi A, et al. Olopatadine: a drug for allergic conjunctivitis targeting the mast cell. *Expert Opin Pharmacother*. 2010 Apr;11(6):969-81.

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

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