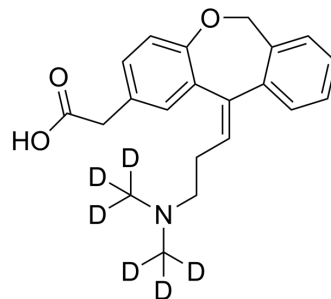


Olopatadine-d₆

| | |
|---------------------------|---|
| Cat. No.: | HY-W062109S |
| CAS No.: | 1231979-85-3 |
| Molecular Formula: | C ₂₁ H ₁₇ D ₆ NO ₃ |
| Molecular Weight: | 343.45 |
| Target: | Histamine Receptor; Endogenous Metabolite |
| Pathway: | GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Olopatadine-d ₆ is the deuterium labeled Olopatadine[1]. Olopatadine is an orally active and selective histamine 1 (H1) 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[2][3]. |
| In Vitro | Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. 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.
- [3]. Leonardi A, et al. Olopatadine: a drug for allergic conjunctivitis targeting the mast cell. *Expert Opin Pharmacother*. 2010 Apr11(6):969-81.

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

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