



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

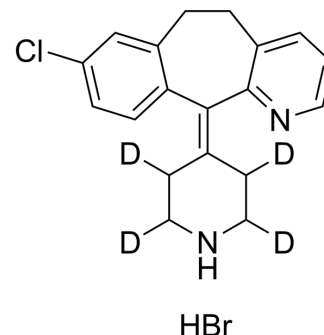
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## Desloratadine-d<sub>4</sub> hydrobromide

<b>Cat. No.:</b>	HY-B0539S4
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>16</sub> D <sub>4</sub> BrClN <sub>2</sub>
<b>Molecular Weight:</b>	395.76
<b>Target:</b>	Histamine Receptor; Endogenous Metabolite; Drug Metabolite; Isotope-Labeled Compounds
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Desloratadine-d <sub>4</sub> hydrobromide is deuterated labeled Desloratadine (HY-B0539). Desloratadine (Sch34117) is the orally active major metabolite of the nonsedating H <sub>1</sub> -antihistamine Loratadine. Desloratadine is a selective H <sub>1</sub> -receptor antagonist that has anti-allergic and anti-inflammatory activities <sup>[1][2]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. McClellan K, et al. Desloratadine. *Drugs*. 2001;61(6):789-797.
- [2]. Geha, R.S. and E.O. Meltzer, Desloratadine: A new, nonsedating, oral antihistamine. *J Allergy Clin Immunol*, 2001. 107(4): p. 751-62.
- [3]. 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.
- [4]. 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.
- [5]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA