



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Carbinoxamine-d<sub>6</sub> (maleate)

Item No. 34246

**Formal Name:** 2-[(4-chlorophenyl)-2-pyridinylmethoxy]-N,N-dimethyl-d<sub>3</sub>-ethanamine, (2Z)-2-butenedioate

**MF:** C<sub>16</sub>H<sub>13</sub>ClD<sub>6</sub>N<sub>2</sub>O • C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

**FW:** 412.9

**Chemical Purity:** ≥90% (Carbinoxamine)

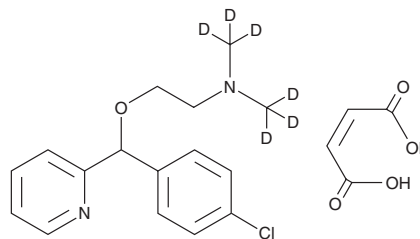
**Deuterium**

**Incorporation:** ≥99% deuterated forms (d<sub>1</sub>-d<sub>6</sub>); ≤1% d<sub>0</sub>

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Carbinoxamine-d<sub>6</sub> is intended for use as an internal standard for the quantification of carbinoxamine (Item No. 23937) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Carbinoxamine-d<sub>6</sub> (maleate) is supplied as a solid. A stock solution may be made by dissolving the carbinoxamine-d<sub>6</sub> (maleate) in the solvent of choice, which should be purged with an inert gas. Carbinoxamine-d<sub>6</sub> (maleate) is soluble in acetonitrile and DMSO.

### Description

Carbinoxamine is a competitive histamine H<sub>1</sub> receptor antagonist (K<sub>i</sub> = 2.3 nM) and first generation antihistamine.<sup>1</sup> It is also an L-type calcium channel inhibitor (K<sub>i</sub> = 1.08 nM).<sup>2</sup> Carbinoxamine decreases negative inotropic activity in isolated guinea pig left atria and negative chronotropic activity in guinea pig spontaneously beating isolated right atria (EC<sub>50</sub>s = 250 and 480 nM, respectively). Formulations containing carbinoxamine have been used in the treatment of allergic rhinitis.

### References

1. Tran, V.T., Chang, R.S.L., and Snyder, S.H. Histamine H<sub>1</sub> receptors identified in mammalian brain membranes with [<sup>3</sup>H]mepyramine. *Proc. Natl. Acad. Sci. USA* **75**(12), 6290-6294 (1978).
2. Carosati, E., Budriesi, R., Ioan, P., *et al.* Discovery of novel and cardioselective diltiazem-like calcium channel blockers via virtual screening. *J. Med. Chem.* **51**(18), 5552-5565 (2008).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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