



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Expressversand

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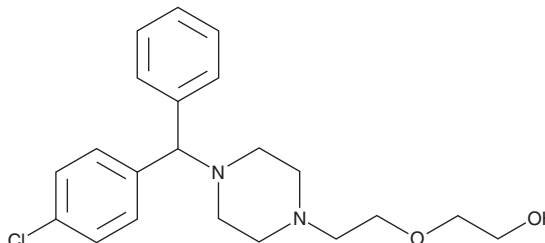
# PRODUCT INFORMATION



## Hydroxyzine

Item No. 24039

**CAS Registry No.:** 68-88-2  
**Formal Name:** 2-[2-[4-[(4-chlorophenyl)phenylmethyl]-1-piperazinyl]ethoxy]-ethanol  
**Synonyms:** NSC 169188, U.C.B 4492  
**MF:** C<sub>21</sub>H<sub>27</sub>ClN<sub>2</sub>O<sub>2</sub>  
**FW:** 374.9  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 229, 260 nm  
**Supplied as:** A solution in ethanol  
**Storage:** -20°C  
**Stability:** ≥1 year



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

### Laboratory Procedures

Hydroxyzine is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and methanol purged with an inert gas can be used. Hydroxyzine is slightly soluble in DMSO and methanol.

### Description

Hydroxyzine is a histamine H<sub>1</sub> receptor antagonist (K<sub>i</sub> = 1.9 nM).<sup>1</sup> It binds competitively with the H<sub>1</sub> receptor inverse agonist mepyramine (Item No. 20978) with an IC<sub>50</sub> value of 80 μM in polymorphonuclear leukocytes.<sup>2</sup> *In vivo*, it is metabolized to the H<sub>1</sub> receptor antagonist cetirizine (Item No. 19686).<sup>3</sup> *In situ*, hydroxyzine (10 μM) prevents recruitment of rolling leukocytes induced by histamine in rat mesentery post-capillary venules.<sup>4</sup> Hydroxyzine also decreases anxiety-like behavior in mice, increasing the time spent in the open arms of the elevated plus maze and in the light side of the light-dark exploration test.<sup>5</sup> Formulations containing hydroxyzine have been used in the treatment of anxiety and as antihistamines in the treatment of allergic rhinitis.

### References

1. Gillard, M., Van Der Perren, C., Moguilevsky, N., *et al.* Binding characteristics of cetirizine and levocetirizine to human H<sub>1</sub> histamine receptors: Contribution of Lys<sup>191</sup> and Thr<sup>194</sup>. *Mol. Pharmacol.* **61**(2), 391-399 (2002).
2. Wescott, S. and Kaliner, M. Histamine H<sub>1</sub> binding site on human polymorphonuclear leukocytes. *Inflammation* **7**(3), 291-300 (1983).
3. Obach, R.S. Pharmacologically active drug metabolites: Impact on drug discovery and pharmacotherapy. *Pharmacol. Rev.* **65**(2), 578-640 (2013).
4. Asako, H., Kurose, I., Wolf, R., *et al.* Role of H<sub>1</sub> receptors and P-selectin in histamine-induced leukocyte rolling and adhesion in postcapillary venules. *J. Clin. Invest.* **93**(4), 1508-1515 (1994).
5. Sawantdesai, N.S., Kale, P.P., and Savai, J. Evaluation of anxiolytic effects of aripiprazole and hydroxyzine as a combination in mice. *J. Basic Clin. Pharm.* **7**(4), 97-104 (2016).

#### 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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