



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### 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)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

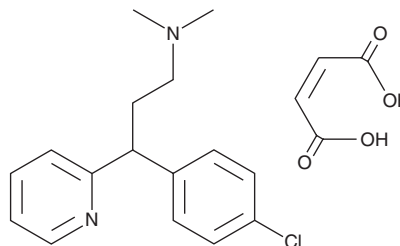
# PRODUCT INFORMATION



## Chlorpheniramine (maleate)

Item No. 21253

**CAS Registry No.:** 113-92-8  
**Formal Name:**  $\gamma$ -(4-chlorophenyl)-N,N-dimethyl-2-pyridinepropanamine, 2Z-butenedioate  
**Synonyms:** Chlorprophenpyridamine, ( $\pm$ )-Chlorpheniramine  
**MF:**  $C_{16}H_{19}ClN_2 \cdot C_4H_4O_4$   
**FW:** 390.9  
**Purity:**  $\geq 95\%$   
**UV/Vis.:**  $\lambda_{max}$ : 262 nm  
**Supplied as:** A crystalline solid  
**Storage:**  $-20^\circ C$   
**Stability:**  $\geq 2$  years



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

### Laboratory Procedures

Chlorpheniramine (maleate) is supplied as a crystalline solid. A stock solution may be made by dissolving the chlorpheniramine (maleate) in the solvent of choice. Chlorpheniramine (maleate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of chlorpheniramine (maleate) in these solvents is approximately 5, 10, and 15 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of chlorpheniramine (maleate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of chlorpheniramine (maleate) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Chlorpheniramine is a histamine  $H_1$  receptor antagonist with an  $IC_{75}$  value of 0.0016  $\mu g/ml$  for reversal of histamine-induced spasms in isolated guinea pig ileum.<sup>1</sup> It protects against intravenous histamine-induced death ( $PD_{50} = 0.15$  mg/kg) and delays induction of aerosolized histamine-induced coughing ( $ED_{100sec} = 0.44$  mg/kg) in guinea pigs. Chlorpheniramine (20 mg/kg, i.p.) prevents histamine-induced passive cutaneous anaphylaxis (PCA) in rabbits.<sup>2</sup> It also reduces respiratory resistance and hypersecretion of tracheobronchial fluid in a dog model of histamine-induced asthma.<sup>3</sup> Formulations containing chlorpheniramine have been used in the treatment of seasonal allergies.

### References

1. Lish, P.M., Robbins, S.I., and Peters, E.L. Specificity of antihistamine drugs and involvement of the adrenergic system in histamine deaths in the guinea pig. *J. Pharmacol. Exp. Ther.* **153**(3), 538-543 (1966).
2. Henson, P.M. and Cochrane, C.G. Immunological induction of increased vascular permeability. I. A rabbit passive cutaneous anaphylactic reaction requiring complement, platelets, and neutrophils. *J. Exp. Med.* **129**(1), 153-165 (1969).
3. Yamatake, Y., Sasagawa, S., Yanaura, S., et al. Involvement of histamine  $H_1$ - and  $H_2$ -receptors in induced asthmas in dogs. *Jpn. J. Pharmacol.* **27**(6), 791-797 (1977).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 01/24/2021

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM