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Produktinformation



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Lieferung & Zahlungsart

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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

www.szabo-scandic.com

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

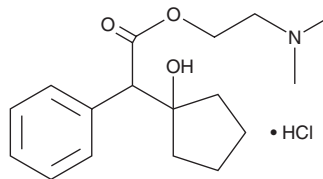
PRODUCT INFORMATION



Cyclopentolate (hydrochloride)

Item No. 23944

CAS Registry No.: 5870-29-1
Formal Name: α -(1-hydroxycyclopentyl)-benzeneacetic acid, 2-(dimethylamino) ethyl ester, monohydrochloride
Synonym: (\pm)-Cyclopentolate
MF: $C_{17}H_{25}NO_3 \cdot HCl$
FW: 327.9
Purity: $\geq 98\%$
Supplied as: A solid
Storage: $-20^{\circ}C$
Stability: ≥ 2 years



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

Laboratory Procedures

Cyclopentolate (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the cyclopentolate (hydrochloride) in the solvent of choice. Cyclopentolate (hydrochloride) is slightly soluble in organic solvents such as DMSO and methanol, which should be purged with an inert gas.

Description

Cyclopentolate is an antagonist of muscarinic acetylcholine receptors (K_i s = 1.62, 27.5, and 2.63 nM for M_1 , M_2 , and M_3 receptors, respectively).¹ It inhibits carbachol-induced contraction of isolated human iris sphincter, circular ciliary muscle, and longitudinal ciliary muscle (K_b s = 7.9, 15.8, and 12.5 nM, respectively).² Formulations containing cyclopentolate have been used to induce pupil dilation and to prevent the eye from accommodating for near vision.

References

1. Lazareno, S., Buckley, N.J., and Roberts, F.F. Characterization of muscarinic M_4 binding sites in rabbit lung, chicken heart, and NG108-15 cell. *Mol. Pharmacol.* **38(6)**, 805-815 (1990).
2. Ishikawa, H., DeSantis, L., and Patil, P.N. Selectivity of muscarinic agonists including (\pm)-aceclidine and antimuscarinics on the human intraocular muscles. *J. Ocul. Pharmacol. Ther.* **14(4)**, 363-373 (1998).

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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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