

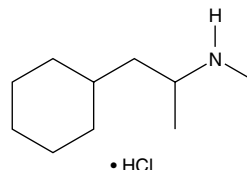
Product Information



Propylhexedrine (hydrochloride)

Item No. 12058

CAS Registry No.: 1007-33-6
Formal Name: N, α -dimethyl-cyclohexaneethanamine, monohydrochloride
Synonyms: Benzedrex, Cyclohexylisopropylmethylamine, Eventin, NSC 27110, NSC 170998, Obesin
MF: C₁₀H₂₁N • HCl
FW: 191.7
Purity: $\geq 95\%$
Stability: ≥ 2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that propylhexedrine (hydrochloride) be stored as supplied at -20°C . It should be stable for at least two years.

Propylhexedrine (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the propylhexedrine (hydrochloride) in the solvent of choice. Propylhexedrine (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of propylhexedrine (hydrochloride) in these solvents is approximately 20 mg/ml.

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 propylhexedrine (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of propylhexedrine (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Propylhexedrine is an α -adrenergic sympathomimetic amine that acts as a local vasoconstrictor.¹ It is the active ingredient in some over-the-counter nasal decongestants but may be abused, typically by intravenous or oral delivery of the nasal decongestant.^{1,2} This product is intended for research and forensic applications. The analysis of underivatized propylhexedrine in human serum using mass spectrometry has been described.³

References

1. Holler, J.M., Vorce, S.P., McDonough-Bender, P.C., *et al.* A drug toxicity death involving propylhexedrine and mitragynine. *J. Anal. Toxicol.* **35**(1), 54-59 (2011).
2. Marsden, P. and Sheldon, J. Acute poisoning by propylhexedrine. *Br. Med. J.* **1**(5802), 730 (1972).
3. Bogusz, M.J., Krüger, K.-D., and Maier, R.-D. Analysis of underivatized amphetamines and related phenethylamines with high-performance liquid chromatography-atmospheric pressure chemical ionization mass spectrometry. *J. Anal. Toxicol.* **24**(2), 77-84 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/12058

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. 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

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com