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

www.szabo-scandic.com

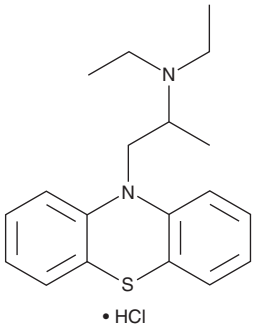
linkedin.com/company/szaboscandic

# PRODUCT INFORMATION

## Ethopropazine (hydrochloride)

*Item No. 28493*

| | |
|---|---|
| **CAS Registry No.:** | 1094-08-2 |
| **Formal Name:** | N,N-diethyl-α-methyl-10H-phenothiazine-10-ethanamine, monohydrochloride |
| **Synonyms:** | NSC 64074, NSC 169467 |
| **MF:** | $C_{19}H_{24}N_2S \bullet HCl$ |
| **FW:** | 348.9 |
| **Purity:** | ≥98% |
| **UV/Vis.:** | $\lambda_{max}$: 252 nm |
| **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

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

Ethopropazine (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ethopropazine (hydrochloride) should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Ethopropazine (hydrochloride) has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Ethopropazine is a butyrylcholinesterase (BChE) inhibitor ($IC_{50}$ = 15.14 µM in human erythrocyte lysates).[1] It is selective for BChE over acetylcholinesterase (AChE) at 500 µM. Ethopropazine also binds to rat forebrain and hindbrain membrane preparations ($K_i$s = 3.1 and 7.2 nM, respectively), which are endogenously enriched in $M_1$ and $M_2$ muscarinic acetylcholine receptors, respectively.[2] Ethopropazine (0.232 mg/kg) decreases the intensity and increases the latency of haloperidol-induced catalepsy, a model of extrapyramidal syndrome, in rats when used in combination with the adenosine $A_{2A}$ receptor antagonist ZM 241395 (Item No. 20447).[3] It reduces thermal hyperalgesia in a rat model of neuropathic pain induced by sciatic nerve ligation when administered at doses of 20 and 30 mg/kg.[4] Formulations containing ethopropazine were previously used in the treatment of Parkinson's disease.

### References


1. Ucar, G., Gokhan, N., Yesilada, A., *et al. Neurosci. Lett.* **382(3)**, 327-331 (2005).
2. Burke, R.E. *Mov. Disord.* **1(2)**, 135-144 (1986).
3. González-Lugo, O.E., Ceballos-Huerta, F., Jiméenez-Capdeville, M.E., *et al. Prog. Neuropsychopharmacol. Biol. Psychiatry* **34(8)**, 1465-1471 (2010).
4. Jevtovic-Todorovic, V., Meyenburg, A.P., Olney, J.W., *et al. Neuropharmacology* **44(6)**, 739-748 (2003).





**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