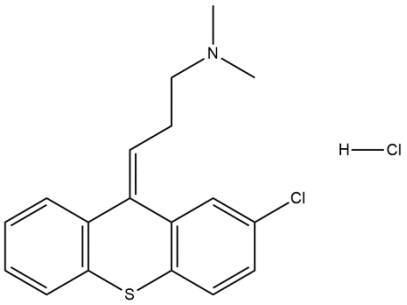
Chlorprothixene hydrochloride

12/20

ALTERNATE NAME: Minithixen; (3Z)-3-(2-chlorothioxanthen-9-ylidene)-N,N-dimethylpropan-1-amine;hydrochloride; (Z)-2-Chloro-9-(3-dimethylaminopropylidene)thioxanthene hydrochloride; Truxal hydrochloride

CATALOG #:
B3091-500 500 mg
B3091-1000 1 g

STRUCTURE:



MOLECULAR FORMULA: $C_{18}H_{19}Cl_2NS$

MOLECULAR WEIGHT: 352.32

CAS NUMBER: 6469-93-8

APPEARANCE: White to light yellow powder

PURITY: ≥ 98%

SOLUBILITY:
~25 mg/ml in ethanol
~2.5 mg/ml in DMSO

DESCRIPTION: Chlorprothixene is a thioxanthine antipsychotic drug. It is an antagonist of dopamine and histamine receptors with K_i values of 18 nM, 2.96 nM, 4.56 nM, 9 nM and 3.75 nM for hD1, hD2, hD3, hD5 and hH1 receptors, respectively. It also binds to serotonin or 5-hydroxytryptamine (5-HT) receptors with pK_i values of 8.3, 8.5 and 9.4 for 5-HT7, 5-HT6 and 5-HT2 respectively.

STORAGE TEMPERATURE: -20 ºC. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Roth, B.L., Craigo, S.C., Choudary, M.S., et al. Binding of typical and atypical antipsychotic agents to 5-hydroxytryptamine-6 and 5-hydroxytryptamine-7 receptors. J Pharmacol Exp Ther. 268(3):1403-10 (1994).
2. von Coburg, Y., Kottle, T., Weizel, L., et al. Potential utility of histamine H3 receptor antagonist pharmacophore in antipsychotics. Bioorg Med Chem Lett. 19(2):538-42 (2009).

RELATED PRODUCTS:

Chlorpromazine Hydrochloride (Cat. No. B1992)
AMG-517 (Cat No. B3019)
Riluzole (Cat. No. B3068)
JNJ-47965567 (Cat. No. B2972)
Vigabatrin (Cat. No. B2983)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***