

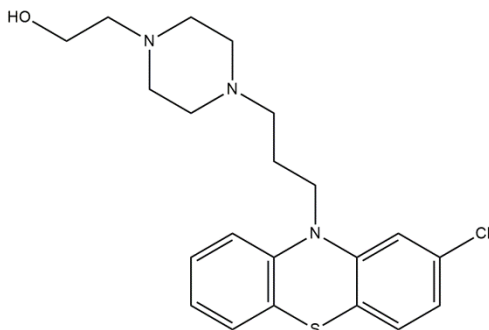
Perphenazine

02/21

ALTERNATE NAMES: Trilafon; Etaperazine; Chlorpiprazine; 2-[4-[3-(2-chlorophenothiazin-10-yl)propyl]piperazin-1-yl]ethanol; 2-Chloro-10-3-(1-(2-hydroxyethyl)-4-piperazinyl)propyl phenothiazine

CATALOG #: B3115-1G 1 g
B3115-5G 5 g

STRUCTURE:



MOLECULAR FORMULA: C₂₁H₂₆ClN₃OS

MOLECULAR WEIGHT: 403.97

CAS NUMBER: 58-39-9

APPEARANCE: White to off-white powder

PURITY: ≥ 97%

SOLUBILITY: ~5 mg/ml in Ethanol
~20 mg/ml in DMSO
~30 mg/ml in DMF

DESCRIPTION: Perphenazine is a dopamine receptor antagonist. It binds to Dopamine receptors D₂, D₃ and D₄ with K_i values of 0.56 nM, 0.43 nM and 28.5 nM respectively. It also binds to serotonin receptors 5-HT_{1A}, 5-HT_{2A}, 5-HT_{2C}, 5-HT₆ and 5-HT₇ with K_i values of 421 nM, 5.6 nM, 132 nM, 17 and 23 nM respectively. It is used as an antipsychotic drug.

STORAGE TEMPERATURE: -20 °C. Store in the dark. Product is light sensitive.

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

REFERENCES:

1. Richtand, N.M., Welge J.A., Logue A.D., et al. Dopamine and serotonin receptor binding and antipsychotic efficacy. *Neuropsychopharmacology* 32(8):1715-26 (2007).
2. Ozdemir, E., Bagcivan, I., and Gursoy, S. Role of D₁/D₂ dopamin receptors antagonist perphenazine in morphine analgesia and tolerance in rats. *Bosn. J. Basic Med. Sci.* 13(2), 119-125 (2013).

RELATED PRODUCTS:

Olanzapine (Cat. No. B2677)
 Bifeprunox (Cat. No. B2921)
 Sertraline (hydrochloride) (Cat. No. B2393)
 Granisetron Hydrochloride (Cat. No. B3205)
 Metergoline (Cat. No. B3088)

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