

Certificate of Analysis

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Product Name: Prochlorperazine dimaleate

Catalog No.: 3287

Batch No.: 2

CAS Number: 84-02-6

EC Number: 201-511-3

IUPAC Name: 2-Chloro-10-[3[(4-methyl-1-piperazinyl)propyl]-10H-phenothiazine dimaleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{24}ClN_3S \cdot 2C_4H_4O_4$

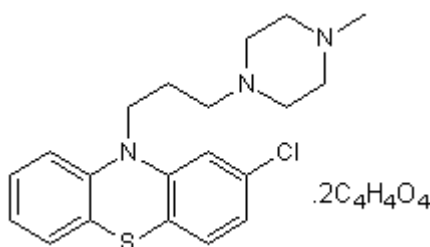
Batch Molecular Weight: 606.09

Physical Appearance: Off White solid

Solubility: DMSO to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	55.49	5.32	6.93
Found	55.64	5.32	6.88

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Information

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Description:

D₂ receptor antagonist. Also interacts with 5-HT₃ and nAChR. Displays antipsychotic, antispasmodic, antiemetic and antinociceptive activity in vivo.

Physical and Chemical Properties:

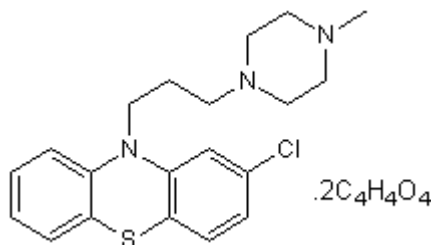
Batch Molecular Formula: C₂₀H₂₄ClN₃S.2C₄H₄O₄

Batch Molecular Weight: 606.09

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Lummis and Baker (1997) Radioligand binding and photoaffinity labeling studies show a direct interaction of phenothiazines at 5-HT₃ receptors. *Neuropharmacology* **36** 665. PMID: 9225292.

Ghelardini et al (2004) Prochlorperazine induces central antinociception mediated by the muscarinic system. *Pharmacol.Res.* **50** 351. PMID: 15225680.

Sato et al (2005) The antipsychotic and antiemetic drug prochlorperazine delays the ventricular repolarization of the in situ canine heart. *J.Pharm.Sci.* **97** 101.

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