

Certificate of Analysis

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Product Name: Flupenthixol dihydrochloride

Catalog No.: 4057

Batch No.: 3

CAS Number: 2413-38-9

EC Number: 219-321-4

IUPAC Name: 4-[3-[2-(Trifluoromethyl)-9H-thioxanthen-9-ylidene]propyl]-1-piperazineethanol dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₅F₃N₂OS.2HCl.½H₂O

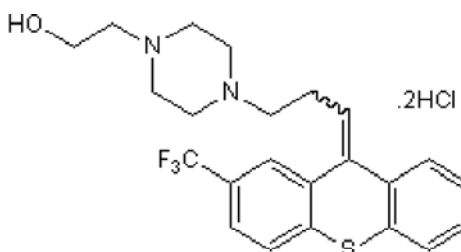
Batch Molecular Weight: 507.44

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.49	5.46	5.42
Found	53.7	5.1	5.33

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

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IUPAC Name: 4-[3-[2-(Trifluoromethyl)-9H-thioxanthen-9-ylidene]propyl]-1-piperazineethanol dihydrochloride

Description:

Antipsychotic drug. Exhibits antagonistic activity at dopamine D₁₋₅ receptors. Used in schizophrenia treatment. This compound is a mixture of E/Z isomers (ratio: 60:40).

Physical and Chemical Properties:

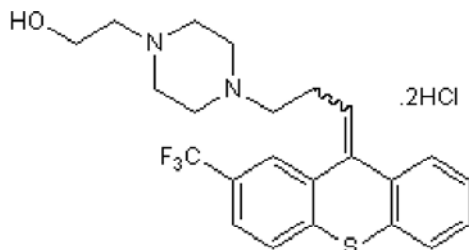
Batch Molecular Formula: C₂₃H₂₅F₃N₂OS.2HCl.½H₂O

Batch Molecular Weight: 507.44

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 50 mM

This compound is a mixture of E/Z isomers (ratio: 60:40)

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:

Peuch *et al* (1981) Pharmacological properties of new antipsychotic agents: Use of animal models. *Neuropharmacology* **20** 1279. PMID: 6119637.

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