

Product Name: Droperidol

Catalog No.: 5858

Batch No.: 1

CAS Number: 548-73-2

IUPAC Name: 1-[1-[4-(4-Fluorophenyl)-4-oxobutyl]-1,2,3,6-tetrahydro-4-pyridinyl]-1,3-dihydro-2H-benzimidazol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂FN₃O₂·¼H₂O

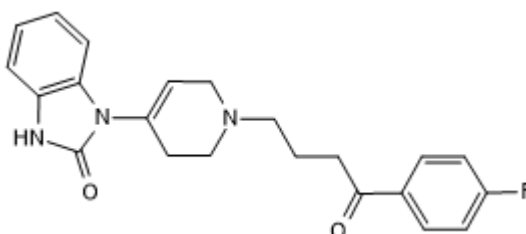
Batch Molecular Weight: 383.93

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.82	5.91	10.94
Found	68.63	5.92	10.82

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Description:

D₂ receptor antagonist. Also exhibits affinity for 5-HT, α-adrenergic and histamine receptors, and hERG channels. Antipsychotic and antiemetic.

Physical and Chemical Properties:

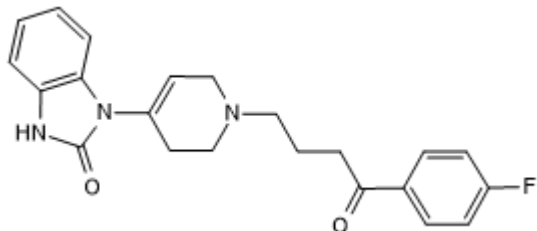
Batch Molecular Formula: C₂₂H₂₂FN₃O₂·¼H₂O

Batch Molecular Weight: 383.93

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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:

Rajamani et al (2005) A two-state homology model of the hERG K⁺ channel: application to ligand binding. *Bioorg.Med.Chem.Lett.* **15** 1737. PMID: 15745831.

Peroutka and Synder (1980) Relationship of neuroleptic drug effects at brain dopamine, serotonin, alpha-adrenergic, and histamine receptors to clinical potency. *Am.J.Psychiatry* **137** 1518. PMID: 6108081.

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