

**Product Name:** Pimozide

**Catalog No.:** 0937

**Batch No.:** 8

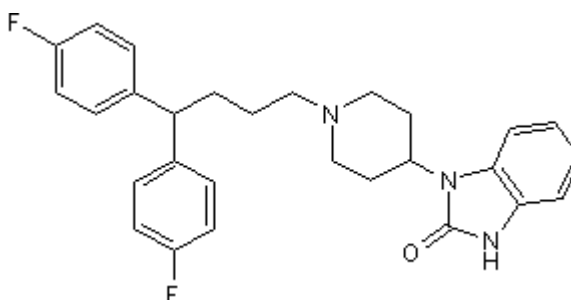
**CAS Number:** 2062-78-4

**EC Number:** 218-171-7

**IUPAC Name:** 1-[1-[4,4-Bis(4-fluorophenyl)butyl]-4-piperidinyl]-1,3-dihydro-2H-benzimidazol-2-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>28</sub>H<sub>29</sub>F<sub>2</sub>N<sub>3</sub>O  
**Batch Molecular Weight:** 461.55  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.86	6.33	9.1
Found	72.9	6.33	9.31

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**Description:**

Dopamine D<sub>2</sub>-receptor antagonist and antipsychotic which binds with very high affinity to the cloned rat 5-HT<sub>7</sub> receptor (K<sub>i</sub> = 0.5 nM).

**Physical and Chemical Properties:**

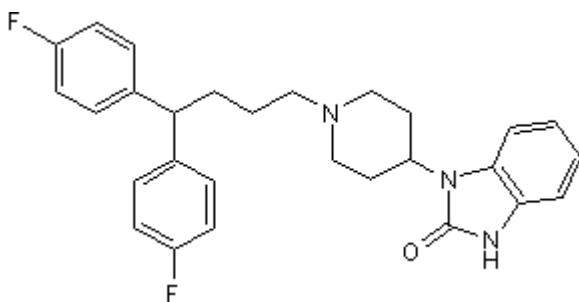
Batch Molecular Formula: C<sub>28</sub>H<sub>29</sub>F<sub>2</sub>N<sub>3</sub>O

Batch Molecular Weight: 461.55

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 20 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:**

Merck Index **12** 7589.

**Roth et al** (1994) Binding of typical and atypical antipsychotic agents to 5-hydroxytryptamine-6 and 5-hydroxytryptamine-7 receptors. *J.Pharmacol.Exp.Ther.* **268** 1403. PMID: 7908055.

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