Haloperidol

Product Number  H 1512
Store at Room Temperature

**Product Description**
Molecular formula: C_{21}H_{23}ClFNO_2
Molecular weight: 375.9
CAS number: 52-86-8
Melting point: 148–149.4 °C
PK_a = 8.3
\( \lambda_{\text{max}} = 247 \text{ nm, } 221 \text{ nm} \)
Extinction coefficient: E\^M = 13.3 (247 nm), 15.0 (221 nm)

Synonyms: 4-[4-(p-Chlorophenyl)-4-hydroxypiperidino]-4'-fluorobutyrophenone; 4-[4-(4-Chlorophenyl)-4-hydroxypiperidino]-4'-fluorobutyrophenone; 4-[4-(4-Chlorophenyl)-4-hydroxy-1-piperidinyl]-1-(4-fluorophenyl)-1-butanone; Haldol®

Haloperidol is a butyrophenone antipsychotic. It is also classified as a neuroleptic (powerful tranquilizer). It acts as a D_2, D_3, and D_4 dopamine receptor antagonist.

A study on the effect of haloperidol on the expression of heat shock protein in the brain of phencyclidine-treated rats has been published. The effect of haloperidol on prepulse inhibition in N-Methyl-D-Aspartic Acid (NMDA) treated rats has also been studied. The effect of haloperidol on rat C6 glioma cells has also been published. A comprehensive review article has been published.

**Precautions and Disclaimer**
For Laboratory Use Only. Not for drug, household or other uses.

**Preparation Instructions**
The product has very low solubility in water (1.4 mg/100 ml), but it is freely soluble in chloroform, benzene, methanol, acetone, and dilute acids. It is soluble in 0.1 N hydrochloric acid (3 mg/ml) with heating. The hydrochloride salt of haloperidol is soluble in water (3 mg/ml).

**References**
1. The Merck Index, 11th ed., Entry# 4511.

Haldol is a registered trademark of Ortho McNeil Pharmaceuticals, a subsidiary of Johnson & Johnson.

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