

Haloperidol

Chemical Properties

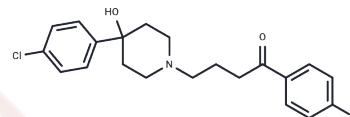
CAS No. : 52-86-8

Formula: C₂₁H₂₃ClFNO₂

Molecular Weight: 375.86

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Haloperidol (Serenace) is a highly potent neuroleptic by relieving nervous through the depression of nerve function. In addition, haloperidol has shown about 50-fold efficacy than chlorpromazine, another antipsychotic drug. Haloperidol has some potencies in the treatment of delusions and hallucinations. Its effects are primarily attained through blocking dopamine receptors in the mesocortex and limbic system.
Targets(IC50)	5-HT Receptor,Dopamine Receptor

Solubility Information

Solubility	Ethanol: 8 mg/mL (21.28 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 45 mg/mL (119.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6606 mL	13.3028 mL	26.6057 mL
5 mM	0.5321 mL	2.6606 mL	5.3211 mL
10 mM	0.2661 mL	1.3303 mL	2.6606 mL
50 mM	0.0532 mL	0.2661 mL	0.5321 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Cai G, et al. Mol Pharmacol. 1999 Nov;56(5):989-96.

Wesołowska A, Rychtyk J, Gdula-Argasińska J, et al Effect of 5-HT₆ Receptor Ligands Combined with Haloperidol or Risperidone on Antidepressant-/Anxiolytic-Like Behavior and BDNF Regulation in Hippocampus and Prefrontal Cortex of Rats. Neuropsychiatric Disease and Treatment. 2021, 17: 2105.

Partyka A, Górecka K, Gdula-Argasińska J, et al. Selective 5-HT₆ Receptor Ligands (Agonist and Antagonist) Show Different Effects on Antipsychotic Drug-Induced Metabolic Dysfunctions in Rats. Pharmaceuticals. 2023, 16(2): 154.

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