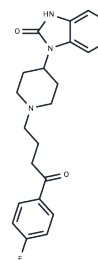


Benperidol

Chemical Properties

CAS No. :	2062-84-2
Formula:	C ₂₂ H ₂₄ N ₂ O ₂
Molecular Weight:	381.44
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Benperidol (Anquil) is a butanone analog with antipsychotic and stabilizing properties, and has been shown to be effective in blocking D2 receptors. Benperidol can be used in positron emission tomography (PET) scanning to measure D(2) dopamine receptor binding in vivo. Benperidol has been shown to be effective in blocking D2 receptors in vivo. Benperidol has been shown to be effective in blocking D2 receptors in vivo.
Targets(IC50)	Others, Dopamine Receptor

Solubility Information

Solubility	DMSO: 90 mg/mL (235.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.24 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6216 mL	13.1082 mL	26.2164 mL
5 mM	0.5243 mL	2.6216 mL	5.2433 mL
10 mM	0.2622 mL	1.3108 mL	2.6216 mL
50 mM	0.0524 mL	0.2622 mL	0.5243 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Süss S, et al. Determination of benperidol and its reduced metabolite in human plasma by high-performance liquid chromatography and electrochemical detection. *J Chromatogr.* 1991;565(1-2):363-373.

Leucht S, et al. Benperidol for schizophrenia. *Cochrane Database Syst Rev.* 2005;2005(2):CD003083.

Schmidt A, et al. Influence of intravenous administration of the antipsychotic drug benperidol on the QT interval. Einfluss der intravenösen Applikation des Antipsychotikums Benperidol auf das QT-Intervall. *Neuropsychiatr.* 2017;31(4):172-175.

Seiler W, et al. Pharmacokinetics and bioavailability of benperidol in schizophrenic patients after intravenous and two different kinds of oral application. *Psychopharmacology (Berl).* 1994;116(4):457-463.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481