Eticlopride hydrochloride

Cat. No.: HY-103413

CAS No.: 97612-24-3

Molecular Formula: $C_{17}H_{26}Cl_2N_2O_3$

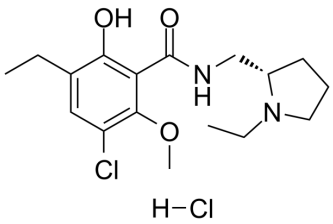
Molecular Weight: 377.31

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (265.03 mM; Need ultrasonic)

H_2O : 50 mg/mL (132.52 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.6503 mL	13.2517 mL	26.5034 mL
5 mM	0.5301 mL	2.6503 mL	5.3007 mL
10 mM	0.2650 mL	1.3252 mL	2.6503 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.63 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.63 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eticlopride hydrochloride, a selective dopamine D2-like receptor antagonist, exhibits high affinity for dopamine D2, α1-adrenergic, α2-adrenergic, 5HT1, 5HT2 receptors with K_is of 0.09, 112, 699, 6220, and 830 nM, respectively. Antipsychotic agent[1].

IC_{50} & Target

D_2 Receptor

0.09 nM (Ki)

REFERENCES

[1]. Jennifer L Martelle, et al. A review of the discovery, pharmacological characterization, and behavioral effects of the dopamine D2-like receptor antagonist eticlopride. CNS Neurosci Ther. Fall 2008;14(3):248-62.

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