Lofexidine hydrochloride

Cat. No.: HY-B1052

CAS No.: 21498-08-8

Molecular Formula: $C_{11}H_{13}Cl_3N_2O$

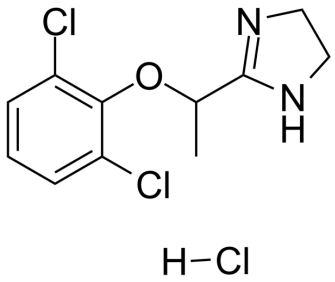
Molecular Weight: 295.59

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 100 mg/mL (338.31 mM)

DMSO : 100 mg/mL (338.31 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.3831 mL	16.9153 mL	33.8306 mL
5 mM	0.6766 mL	3.3831 mL	6.7661 mL
10 mM	0.3383 mL	1.6915 mL	3.3831 mL

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

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (338.31 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lofexidine (hydrochloride) is a selective α2-receptor agonist, commonly used to alleviate the physical symptoms of heroin and other types of opioid withdrawal[1][2].

REFERENCES

[1]. Vartak AP, et al. The preclinical discovery of lofexidine for the treatment of opiate addiction. Expert Opin Drug Discov. 2014 Nov;9(11):1371-7.

[2]. Gish EC, et al. Lofexidine, an {alpha}2-receptor agonist for opioid detoxification. Ann Pharmacother. 2010 Feb;44(2):343-51.

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