Lofexidine

Cat. No.: HY-B1052A

CAS No.: 31036-80-3

Molecular Formula: $C_{11}H_{12}Cl_2N_2O$

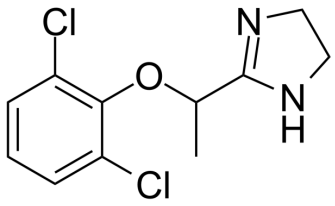
Molecular Weight: 259.13

Target: Adrenergic 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 : 62.5 mg/mL (241.19 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.8591 mL	19.2953 mL	38.5907 mL
5 mM	0.7718 mL	3.8591 mL	7.7181 mL
10 mM	0.3859 mL	1.9295 mL	3.8591 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: ≥ 2.08 mg/mL (8.03 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (8.03 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (8.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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

IC_{50} & Target

α2-receptor[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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