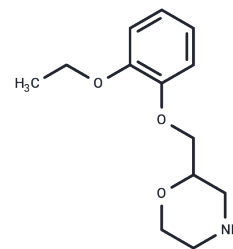


Viloxazine

Chemical Properties

CAS No. :	46817-91-8
Formula:	C13H19NO3
Molecular Weight:	237.29
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Viloxazine (Viloxazin) (Viloxazin) is a dual-action compound that functions as a norepinephrine reuptake inhibitor and exhibits potent agonistic activity towards 5-HT 2C receptors while acting as an antagonist for 5-HT 2B receptors, with respective potency values of EC 50 = 32 μ M and IC 50 = 27 μ M. Its primary mechanism of action involves the modulation of serotonergic and noradrenergic pathways. Viloxazine is commonly employed in depression research [1] [2].
Targets(IC50)	5-HT Receptor, Adrenergic Receptor, Norepinephrine
In vivo	Viloxazine (1-16 mg/kg; spinal rat) stimulated the hind limb flexor reflex in the dose-dependent manner.[3]

Solubility Information

Solubility	DMSO: 60 mg/mL (252.86 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: 2.5 mg/mL (10.54 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	4.2143 mL	21.0713 mL	42.1425 mL
5 mM	0.8429 mL	4.2143 mL	8.4285 mL
10 mM	0.4214 mL	2.1071 mL	4.2143 mL
50 mM	0.0843 mL	0.4214 mL	0.8429 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

Yu C, et al. New Insights into the Mechanism of Action of Viloxazine: Serotonin and Norepinephrine Modulating Properties. *J Exp Pharmacol.* 2020;12:285-300.

Pinder RM, et al. Viloxazine: a review of its pharmacological properties and therapeutic efficacy in depressive illness. *Drugs.* 1977;13(6):401-421.

Pawłowski L, et al. An evidence for the central serotonergic activity of viloxazine. *Pol J Pharmacol Pharm.* 1979; 31(4):261-269.

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