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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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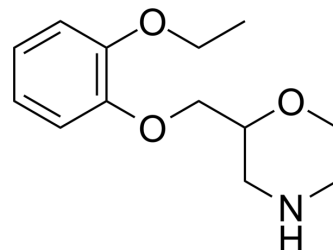
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Viloxazine

Cat. No.:	HY-W380450
CAS No.:	46817-91-8
Molecular Formula:	C ₁₃ H ₁₉ NO ₃
Molecular Weight:	237.29
Target:	5-HT Receptor; Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 120 mg/mL (505.71 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		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
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: ≥ 3 mg/mL (12.64 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (12.64 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 3 mg/mL (12.64 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Viloxazine (Viloxazin) is a norepinephrine reuptake inhibitor, also a potent 5-HT _{2C} agonist and 5-HT _{2B} antagonist with an EC ₅₀ of 32 μM and an IC ₅₀ of 27 μM for 5-HT _{2C} and 5-HT _{2B} , respectively. The mechanism of action of Viloxazine predominantly involves serotonergic and noradrenergic pathways. Viloxazine can be used for researching depression ^{[1][2]} .	
IC ₅₀ & Target	Human 5-HT _{2C} Receptor 32 μM (EC ₅₀)	human 5-HT _{2B} Receptor 27 μM (IC ₅₀)

REFERENCES

- [1]. Yu C, et al. New Insights into the Mechanism of Action of Viloxazine: Serotonin and Norepinephrine Modulating Properties. J Exp Pharmacol. 2020 Aug 25;12:285-300.
- [2]. Pinder RM, et al. Viloxazine: a review of its pharmacological properties and therapeutic efficacy in depressive illness. Drugs. 1977 Jun;13(6):401-21.
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Caution: Product has not been fully validated for medical applications. For research use only.

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