Idalopirdine hydrochloride

Cat. No.:	HY-14338A		
CAS No.:	467458-02-2		
Molecular Formula:	C ₂₀ H ₂₀ ClF ₅ N ₂ O		F F
Molecular Weight:	434.83	E HZ	O F F
Target:	5-HT Receptor	F	\sim
Pathway:	GPCR/G Protein; Neuronal Signaling	N ⁻ H	HCI
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	DMSO : ≥ 25 mg/mL (57.49 mM) H ₂ O : 2 mg/mL (4.60 mM; ultrasonic and warming and heat to 60°C) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2997 mL	11.4987 mL	22.9975 mL		
		5 mM	0.4599 mL	2.2997 mL	4.5995 mL		
		10 mM	0.2300 mL	1.1499 mL	2.2997 mL		
	Please refer to the sol						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.75 mM); Clear solution						

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In Vivo	Idalopirdine (intraperitoneal injection, 5 mg/kg, daily, 28 days) hydrochloride can reduce food intake and body weight in over-eating rat models ^[1] . Idalopirdine (1 or 2 mg/kg, i.v) hydrochloride can dose-dependently increase the gamma power during nPO electrical stimulation, enhance effect of donepezil on cortical gamma oscillations but no alteration of sleep-wake patterns in rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Male Wistar rats ^[1]			
	Dosage:	5 mg/kg			
	Administration:	intraperitoneal injection, daily, 28 days			
	Result:	Significantly reduced the amount of calories consumed by animals in a palatable diet and significantly reduced plasma levels of glucose, triglycerides and cholesterol.			
	Animal Model:	Male Sprague-Dawley rats ^[2]			
	Dosage:	1 or 2 mg/kg			
	Administration:	i.v.			
	Result:	No significant increase in the gamma power at 1 mg/kg and significantly increased the gamma power at 2 mg/kg. Significantly enhanced and/or prolonged effect of low-dose donepezil (0.3 mg/kg) on gamma power during 60-minute nPO stimulation after donepezil administration.			

REFERENCES

[1]. Magdalena Kotańska, et al. Idalopirdine, a selective 5-HT6 receptor antagonist, reduces food intake and body weight in a model of excessive eating. Metab Brain Dis. 2018 Jun;33(3):733-740.

[2]. Maria Amat-Foraster, et al. The 5-HT6 receptor antagonist idalopirdine potentiates the effects of donepezil on gamma oscillations in the frontal cortex of anesthetized and awake rats without affecting sleep-wake architecture. Neuropharmacology. 2017 Feb;113(Pt A):45-59.

Caution: Product has not been fully validated for medical applications. For research use only.

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