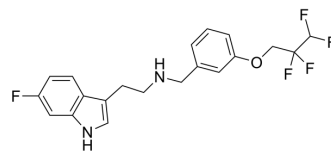


Idalopirdine

Cat. No.:	HY-14338
CAS No.:	467459-31-0
Molecular Formula:	C ₂₀ H ₁₉ F ₅ N ₂ O
Molecular Weight:	398.37
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Idalopirdine (Lu AE58054) is a potent, selective 5-HT ₆ receptor antagonist with a K _i value of 0.83 nM. Idalopirdine may be used in studies of Alzheimer's disease and schizophrenia, among other related disorders ^{[1][2]} .																
IC₅₀ & Target	5-HT ₆ Receptor 0.83 nM (K _i)																
In Vivo	<p>Idalopirdine (intraperitoneal injection, 5 mg/kg, daily, 28 days) can reduce food intake and body weight in over-eating rat models^[1].</p> <p>Idalopirdine (1 or 2 mg/kg, i.v) 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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Wistar rats^[1]</td> </tr> <tr> <td>Dosage:</td> <td>5 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>intraperitoneal injection, daily, 28 days</td> </tr> <tr> <td>Result:</td> <td>Significantly reduced the amount of calories consumed by animals in a palatable diet and significantly reduced plasma levels of glucose, triglycerides and cholesterol.</td> </tr> </table> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Sprague-Dawley rats^[2]</td> </tr> <tr> <td>Dosage:</td> <td>1 or 2 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.v.</td> </tr> <tr> <td>Result:</td> <td>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.</td> </tr> </table>	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.
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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):45-5

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

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