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产品名称: Lu AE58054

CAS 号: 467459-31-0

产品货号: S88114

生物活性:

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Description	Idalopirdine (Lu AE58054) 是有效, 选择性的 5-HT6 受体拮抗剂, Ki 为 0.83 nM。Idalopirdine 可用于阿尔茨海默病和精神分裂症等相关疾病的研究。	
IC50 & Target	5-HT ₆ Receptor	5-HT ₆ Receptor 0.83 nM (Ki)
In Vivo	Idalopirdine (intraperitoneal injection, 5 mg/kg, daily, 28 days) can reduce food intake and body weight in over-eating rat models[1].	
	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].	
	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.
参考文献	[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.	