

产品名称：环丙基[4-[3-(1H-咪唑-4-基)丙氧基]苯基]甲酮马来酸盐  
 产品别名：Ciproxifan maleate

生物活性：

Description	<p>Ciproxifan maleate(FUB-359 maleate) is a highly potent and selective histamin H3-receptor antagonist with IC50 of 9.2 nM, with low apparent affinity at other receptor subtypes. IC50 value: Target: H3 receptor In vitro, Ciproxifan behaved as a competitive antagonist at the H3 autoreceptor controlling 3H histamine release from synaptosomes and displayed similar Ki values (0.5-1.9 nM) at the H3 receptor controlling the electrically-induced contraction of guinea pig ileum or at the brain H3 receptor labeled with 125I-iodoproxyfan. This appears to be an orally bioavailable, extremely selective and potent H3-receptor antagonist whose vigilance- and attention-promoting effects are promising for therapeutic applications in aging disorders.</p>	
Solvent&Solubility	<p><b>In Vitro:</b></p> <p><b>DMSO : 100 mg/mL (258.80 mM)</b></p> <p>* "≥" means soluble, but saturation unknown.</p>	
	<table><tr><td rowspan="4">Preparing   </td></tr></table>	Preparing   
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	<p>此方案可获得 <math>\geq 2.5</math> mg/mL (6.47 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中, 混合均匀。</p>
References	<p>[1]. <u>Motawaj M, Arrang JM. Ciproxifan, a histamine H<sub>2</sub>-receptor antagonist/inverse agonist, modulates methamphetamine-induced sensitization in mice. Eur J Neurosci. 2011 Apr;33(7):1197-204. doi: 10.1111/j.1460-9568.2011.07618.x.</u></p> <p>[2]. <u>Bardgett ME, Davis NN, Schultheis PJ, Griffith MS. Ciproxifan, an H<sub>3</sub> receptor antagonist, alleviates hyperactivity and cognitive deficits in the APP Tg2576 mouse model of Alzheimer's disease. Neurobiol Learn Mem. 2011 Jan;95(1):64-72.</u></p> <p>[3]. <u>Bardgett ME, Points M, Kleier J, Blankenship M, Griffith MS. The H<sub>3</sub> antagonist, ciproxifan, alleviates the memory impairment but enhances the motor effects of MK-801 (dizocilpine) in rats. Neuropharmacology. 2010 Nov;59(6):492-502.</u></p> <p>[4]. <u>Day M, et al . Differential effects of ciproxifan and nicotine on impulsivity and attention measures in the 5-choice serial reaction time test. Biochem Pharmacol. 2007 Apr 15;73(8):1123-34.</u></p> <p>[5]. <u>Pillot C, Héron A, Schwartz JC, Arrang JM. Ciproxifan, a histamine H<sub>3</sub>-receptor antagonist/inverse agonist, modulates the effects of methamphetamine on neuropeptide mRNA expression in rat striatum. Eur J Neurosci. 2003 Jan;17(2):307-14.</u></p>

源叶生物