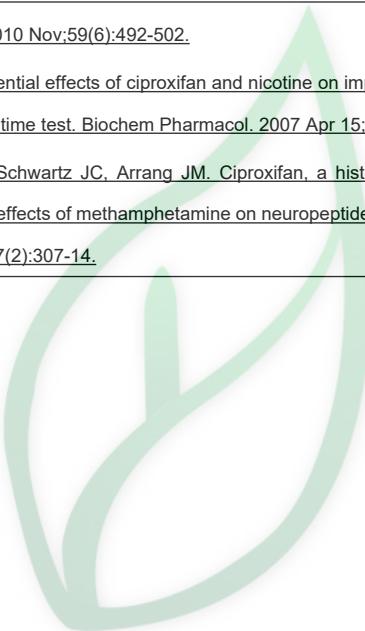


产品名称：环丙基[4-[3-(1H-咪唑-4-基)丙氧基]苯基]甲酮马来酸盐
产品别名：Ciproxifan maleate

生物活性:																												
Description	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.																											
Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : 100 mg/mL (258.80 mM)</p> <p>* "≥" means soluble, but saturation unknown.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th>Solvent</th> <th>Mass</th> <th rowspan="2">1 mg</th> <th rowspan="2">5 mg</th> <th rowspan="2">10 mg</th> </tr> <tr> <th>Concentration</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Preparing</td> <td>1 mM</td> <td>2.5880 mL</td> <td>12.9400 mL</td> <td>25.8799 mL</td> </tr> <tr> <td style="text-align: center;">Stock Solutions</td> <td>5 mM</td> <td>0.5176 mL</td> <td>2.5880 mL</td> <td>5.1760 mL</td> </tr> <tr> <td></td> <td>10 mM</td> <td>0.2588 mL</td> <td>1.2940 mL</td> <td>2.5880 mL</td> </tr> </tbody> </table> <p>*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。</p> <p>In Vivo:</p> <p>请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂：</p> <p>——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用；以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶。</p> <p>1. 请依序添加每种溶剂： 10% DMSO → 40% PEG300 → 5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.47 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀。向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。</p> <p>2. 请依序添加每种溶剂： 10% DMSO → 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.47 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水溶液中，混合均匀。</p> <p>3. 请依序添加每种溶剂： 10% DMSO → 90% corn oil Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution</p>						Solvent	Mass	1 mg	5 mg	10 mg	Concentration		Preparing	1 mM	2.5880 mL	12.9400 mL	25.8799 mL	Stock Solutions	5 mM	0.5176 mL	2.5880 mL	5.1760 mL		10 mM	0.2588 mL	1.2940 mL	2.5880 mL
	Solvent	Mass	1 mg	5 mg	10 mg																							
	Concentration																											
Preparing	1 mM	2.5880 mL	12.9400 mL	25.8799 mL																								
Stock Solutions	5 mM	0.5176 mL	2.5880 mL	5.1760 mL																								
	10 mM	0.2588 mL	1.2940 mL	2.5880 mL																								

	<p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (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 $100 \mu\text{L} 25.0 \text{ mg/mL}$ 的澄清 DMSO 储备液加到 $900 \mu\text{L}$ 玉米油中，混合均匀。</p>
References	<p>[1]. Motawaj M, Arrang JM. Ciproxifan, a histamine H₃-receptor antagonist/inverse agonist, modulates methamphetamine-induced sensitization in mice. <i>Eur J Neurosci.</i> 2011 Apr;33(7):1197-204. doi: 10.1111/j.1460-9568.2011.07618.x.</p> <p>[2]. Bardgett ME, Davis NN, Schultheis PJ, Griffith MS. Ciproxifan, an H₃ receptor antagonist, alleviates hyperactivity and cognitive deficits in the APP Tg2576 mouse model of Alzheimer's disease. <i>Neurobiol Learn Mem.</i> 2011 Jan;95(1):64-72.</p> <p>[3]. Bardgett ME, Points M, Kleier J, Blankenship M, Griffith MS. The H₃ antagonist, ciproxifan, alleviates the memory impairment but enhances the motor effects of MK-801 (dizocilpine) in rats. <i>Neuropharmacology.</i> 2010 Nov;59(6):492-502.</p> <p>[4]. Day M, et al . Differential effects of ciproxifan and nicotine on impulsivity and attention measures in the 5-choice serial reaction time test. <i>Biochem Pharmacol.</i> 2007 Apr 15;73(8):1123-34.</p> <p>[5]. Pillot C, Héron A, Schwartz JC, Arrang JM. Ciproxifan, a histamine H₃-receptor antagonist/inverse agonist, modulates the effects of methamphetamine on neuropeptide mRNA expression in rat striatum. <i>Eur J Neurosci.</i> 2003 Jan;17(2):307-14.</p>



源叶生物