

产品名称：依匹斯汀

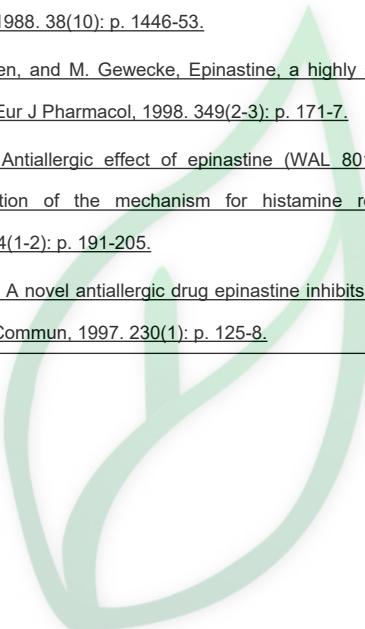
产品别名：Epinastine; WAL801

生物活性：

Description	Epinastine(WAL801) is an antihistamine and mast cell stabilizer that is used in eye drops to treat allergic conjunctivitis. Target: Histamine Receptor Epinastine shows a high affinity to H1-receptors in receptor binding studies in the guinea pig ileum. Epinastine inhibits histamine-induced reactions in the skin or the lung of rats, dogs and guinea pigs [1]. Epinastine is able to displace specific [³ H]NC-5Z binding at low concentrations in the locust nervous tissue. Epinastine binds to the honey bees neuronal octopamine receptor with Ki of 1.1 nM. Epinastine antagonises octopamine-induced cAMP formation in the insect brain [2]. Epinastine causes an inhibition of histamine release from rat peritoneal mast cells induced by both antigen-antibody reaction and compound 48/80. Epinastine is similarly effective in inhibiting compound 48/80-induced histamine release not only from isolated rat peritoneal mast cells but also from rat mesenterial pieces. Epinastine is effective in inhibiting not only Ca ²⁺ uptake into lung mast cells in actively sensitized guinea pigs but also Ca ²⁺ release from the intracellular Ca store of rat peritoneal mast cells exposed to both compound 48/80 and substance P [3]. Epinastine shows a dose- and time-dependent suppressive effect on IL-8, one of the chemokines for eosinophils, released from eosinophils isolated from atopic diseases [4].
--------------------	---

Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : ≥ 50 mg/mL (200.55 mM)</p> <p>H₂O : < 0.1 mg/mL (insoluble)</p> <p>* "≥" means soluble, but saturation unknown.</p>				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg
*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。					
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>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</p> <p>Solubility: ≥ 2.5 mg/mL (10.03 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (10.03 mM, 饱和度未知) 的澄清溶液。</p> <p>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)</p>					

	<p>Solubility: $\geq 2.5 \text{ mg/mL}$ (10.03 mM); Clear solution</p> <p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (10.03 mM, 饱和度未知) 的澄清溶液。</p> <p>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</p> <p>Solubility: $\geq 2.5 \text{ mg/mL}$ (10.03 mM); Clear solution</p> <p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (10.03 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 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Fugner, A., et al., <u>In vitro and in vivo studies of the non-sedating antihistamine epinastine</u>. <i>Arzneimittelforschung</i>, 1988. 38(10): p. 1446-53.</p> <p>[2]. Roeder, T., J. Degen, and M. Gewecke, <u>Epinastine, a highly specific antagonist of insect neuronal octopamine receptors</u>. <i>Eur J Pharmacol</i>, 1998. 349(2-3): p. 171-7.</p> <p>[3]. Kamei, C., et al., <u>Antiallergic effect of epinastine (WAL 801 CL) on immediate hypersensitivity reactions: (I). Elucidation of the mechanism for histamine release inhibition</u>. <i>Immunopharmacol Immunotoxicol</i>, 1992. 14(1-2): p. 191-205.</p> <p>[4]. Kohyama, T., et al., <u>A novel antiallergic drug epinastine inhibits IL-8 release from human eosinophils</u>. <i>Biochem Biophys Res Commun</i>, 1997. 230(1): p. 125-8.</p>



源叶生物