



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyyssw@sina.com

产品名称: **Pirmenol**
CAS 号: **68252-19-7**
产品货号: **S88159**

生物活性:

Description	Pirmenol 是一种具有口服活性的抗心律失常剂。Pirmenol 通过阻断毒蕈碱性受体 (mAChR) 来抑制 IK.ACh (IC50: 0.1 μ M)。可用于心血管疾病的研究, 如心房颤动。Pirmenol 通过阻断毒蕈碱性受体 (mAChR) 来抑制 IK.ACh (IC50: 0.1 μ M)。Pirmenol 可用于心血管疾病的研究, 如心房颤动。									
IC50 & Target	IC50: 0.1 μ M (IK.ACh)[1]									
In Vitro	Pirmenol (1 μ M) inhibits the IK.ACh induced by carbachol or intracellular loading of GTPγS in atrial cells[1]. Pirmenol (5 μ M) depresses the early part of the plateau and lengthened the final repolarization of the action potentials in ventricular myocytes[3]. Pirmenol (1 μ M) prolongs the action potential duration at 90% repolarization in atrial muscles and Purkinje fibers[3].									
In Vivo	Pirmenol (2.5 and 5 mg/kg, p.o.) is effective against the arrhythmias in conscious, coronary artery ligated dogs[4]. Pirmenol (rats) shows LD50s of 359.9 mg/kg (p.o), 23.6 mg/kg (i.v.)[2]. Pirmenol (mice) shows LD50s of 215.5 mg/kg (p.o), 20.8 mg/kg (i.v.)[2]. <table><tr><td>Animal Model:</td><td>Conscious, coronary artery ligated dogs[4]</td></tr><tr><td>Dosage:</td><td>Oral administration (p.o.)</td></tr><tr><td>Administration:</td><td>2.5 and 5 mg/kg</td></tr><tr><td>Result:</td><td>Restored normal sinus rhythm, and showed a long duration of activity, wide safety margin.</td></tr></table>		Animal Model:	Conscious, coronary artery ligated dogs[4]	Dosage:	Oral administration (p.o.)	Administration:	2.5 and 5 mg/kg	Result:	Restored normal sinus rhythm, and showed a long duration of activity, wide safety margin.
Animal Model:	Conscious, coronary artery ligated dogs[4]									
Dosage:	Oral administration (p.o.)									
Administration:	2.5 and 5 mg/kg									
Result:	Restored normal sinus rhythm, and showed a long duration of activity, wide safety margin.									
参考文献	[1]. Watanabe Y, et al. Pirmenol inhibits muscarinic acetylcholine receptor-operated K⁺ current in the guinea pig heart. Eur J Pharmacol. 1997 Oct 29;338(1):71-4. [2]. Schardein JL, et al. Preclinical toxicology studies with a new antiarrhythmic agent: Pirmenol hydrochloride (CI-845). Toxicol Appl Pharmacol. 1980 Nov;56(2):294-301. [3]. T Sawanobori, et al. Electrophysiologic and antiarrhythmic actions of pirmenol on rabbit and guinea pig cardiac preparations. J Cardiovasc Pharmacol. 1990 Dec;16(6):975-83. [4]. T E Mertz, et al. Pirmenol hydrochloride (CI-845): antiarrhythmic profile in coronary artery ligated conscious dogs. J Cardiovasc Pharmacol. 1980 Sep-Oct;2(5):527-41.									