



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: shyysw@sina.com

产品名称: **ARG-SER-ARG-THR-ARG-GLN-PHE-TYR-GLY-LEU-MET-NH₂**
产品别名: **Hemokinin 1 (mouse)**

生物活性:	
Description	Hemokinin 1 (mouse) is a selective agonist of neurokinin-1 receptor, with K_i of 0.175 nM and 560 nM for human NK1 receptor and human NK2 receptor, respectively.
IC₅₀ & Target	K_i : 0.175 nM (Human NK1 receptor), 560 nM (Human NK2 receptor)[1]
In Vitro	Hemokinin 1 (mouse) (1 nM-3 μ M) produces concentration-dependent contraction of RUB averaging $66\pm3\%$ (n=6) of the maximal contraction produced by KCl (80 mM). Hemokinin 1 (mouse) (10 nM-10 μ M) induces a quickly-developing contractile responses of GPI, as does the tachykinin NK3 receptor selective agonist senktide or neurokinin B (NKB). Hemokinin 1 (mouse) induces full agonist responses but with a 500 fold lower potency as compared to NKB[1].
In Vivo	Hemokinin 1 (mouse) (0.01-100 nmol/kg i.v., n=10) induces a dose-related hypotension that is maximal at the dose of 10 nmol/kg. For systolic blood pressure (SBP), the ED ₅₀ value is 0.2 nmol/kg (0.1-0.4 nmol/kg) for Hemokinin 1 (mouse). For diastolic blood pressure (DBP), the ED ₅₀ value is 0.1 nmol/kg (0.07-0.2 nmol/kg) for Hemokinin 1 (mouse). Hemokinin 1 (mouse) (0.1-100 nmol/kg, i.v.) induces a dose-related salivary secretion in atropine-pretreated rats[1].
References	[1]. Francesca Bellucci, et al. Pharmacological profile of the novel mammalian tachykinin, hemokinin 1. Br J Pharmacol. 2002 Jan; 135(1): 266-274
实验参考:	
Animal Administration	Male albino Wistar Rats weighing 400-450 g are used throughout the study. On the day of the experiment, rats are anaesthetized with urethane (1.2 g/kg, s.c.). Following tracheotomy and placement of a tracheal cannula (PE 205), the left jugular vein is cannulated (PE50) for SP or Hemokinin 1 (mouse) administrations. The body temperature is maintained constant ($36.5\pm0.5^\circ\text{C}$) by a thermoregulated heating lamp. About 1 h elapsed between the animal set-up and the start of the experiments, thereafter each animal receive atropine (1.4 μ mol/kg i.v. as bolus followed by infusion of 1.4 μ M in a volume of 300 μ L/h) and 10 min later the vehicle (saline) and increasing doses (0.5 log units) of SP or Hemokinin 1 (mouse) (0.01, 0.03, 0.1, 0.3, 1, 3, 10, 30, and 100 nmol/kg); the first five doses are administered at 20 min intervals, whereas 30 min elapsed between each of the last four doses. Atropine pretreatment is performed in order to minimize the influence of cholinergic secretory reflexes in response to the placement of the cotton swab in the rat's oral cavity for the measurement of salivary secretion induced by SP or Hemokinin 1 (mouse).
References	[1]. Francesca Bellucci, et al. Pharmacological profile of the novel mammalian tachykinin, hemokinin 1. Br J Pharmacol. 2002 Jan; 135(1): 266-274