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：精氨酰-脯氨酰-赖氨酰-脯氨酰-谷氨酰-谷氨酰-苯丙氨酰-苯丙氨酰-SAR-亮氨酸-蛋氨酸[O2]-胺
产品别名：[Sar9,Met(O2)11]-Substance P

生物活性：

Description	[Sar9,Met(O2)11]-Substance P is a tachykinin NK1 receptor selective agonist.
IC_{50} & Target	NK1 receptor[1]
In Vitro	[Sar9,Met(O2)11]-Substance P and septide (10-100 pmol per rat, i.c.v.) are equipotent in increasing mean arterial blood pressure (MAP) and heart rate (HR), yet they have dissimilar time-course. Both agonists increase dose-dependently face washing and sniffing while [Sar9,Met(O2)11]-Substance P is the sole to produce grooming[1].

Solvent&Solubility

In Vitro:

H_2O : 50 mg/mL (**35.88 mM;** Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7175 mL	3.5877 mL	7.1754 mL
	5 mM	0.1435 mL	0.7175 mL	1.4351 mL
	10 mM	0.0718 mL	0.3588 mL	0.7175 mL

*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。

References	[1]. Cellier E, et al. Characterization of central and peripheral effects of septide with the use of five tachykinin NK1 receptor antagonists in the rat. Br J Pharmacol. 1999 Jun;127(3):717-28.

实验参考：

Kinase Assay	Rats initially receive an i.c.v. injection of artificial cerebrospinal fluid (aCSF; 1 μl) followed 60 min later by a single dose of either [Sar9,Met(O2)11]-Substance P (10 pmol (n=9), 25 pmol (n=9), 65 pmol (n=8) or 100 pmol (n=8)) or septide (10 pmol (n=12), 25 pmol (n=9), 65 pmol (n=6) or 100 pmol (n=6)) to construct a complete dose-response curve. Each rat is selected randomly and injected with only one of the two agonists for the remainder of the protocol. Increasing doses of [Sar9,Met(O2)11]-Substance P or septide are given at 24 h intervals on day 1 (10 pmol), day 2 (25 pmol), day 3 (65 pmol) and day 4 (100 pmol). Control rats (n=18) receive only the vehicle (aCSF) each day of experiment. Peptides are administered in a volume of 1 μL of vehicle followed by 5 μL flush volume of aCSF which corresponds to the void volume of the catheter. Each dose is calculated per rat in 1 μL solution[1].
References	[1]. Cellier E, et al. Characterization of central and peripheral effects of septide with the use of five tachykinin NK1 receptor antagonists in the rat. Br J Pharmacol. 1999 Jun;127(3):717-28.