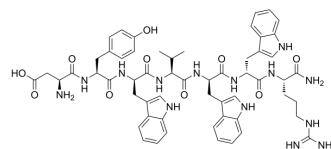


MEN 10207

Cat. No.:	HY-151413
CAS No.:	126050-12-2
Molecular Formula:	C ₅₇ H ₆₈ N ₁₄ O ₁₀
Molecular Weight:	1109.24
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (45.08 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.9015 mL	4.5076 mL	9.0152 mL
	5 mM	0.1803 mL	0.9015 mL	1.8030 mL
	10 mM	0.0902 mL	0.4508 mL	0.9015 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MEN 10207 is a selective NK-2 tachykinin receptor (Neurokinin Receptor) antagonist. MEN 10207 has pA₂ values of 5.2, 7.9 and 4.9 in three monoreceptor in vitro assays for NK-1, NK-2 and NK-3 tachykinin receptors, respectively.

IC₅₀ & Target

Tachykinin NK ₂ Receptor	NK1	NK3
7.9 (pA ₂)	5.2 (pA ₂)	4.9 (pA ₂)

In Vitro

In competitive radioligand binding assays, MEN 10207 (the IC₅₀ ranges of 21-54 nM) has high affinity in bovine stomach membranes and SKLKB82#3 cells, a murine fibroblast cell line transfected with a cDNA encoding for the bovine NK2 receptor [3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

but not Substance P in a dose-dependent manner. And MEN 10207 also effectively blocks the long-term reflex facilitation to the gastrocnemius nerve stimulation^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Decerebrate, spinalized, unanesthetized Female Sprague-Dawley rats (250-280 g) ^[1]
Dosage:	7 pmol/10 μ L, 70 pmol/10 μ L, 700 pmol/10 μ L
Administration:	Intrathecal administration; once
Result:	Blocked the reflex facilitation to intrathecal Neurokinin A, but not Substance P in a dose-dependent manner.

REFERENCES

[1]. X J Xu, et al. On the role of NK-2 tachykinin receptors in the mediation of spinal reflex excitability in the rat. *Neuroscience*. 1991;44(2):483-90.

[2]. P Rovero, et al. A highly selective NK-2 tachykinin receptor antagonist containing D-tryptophan. *Eur J Pharmacol*. 1990 Jan 3;175(1):113-5.

[3]. A K Henderson, et al. Demonstration of a neurokinin A receptor subtype in transfected fibroblasts. *Eur J Pharmacol*. 1992 Feb 13;225(2):175-8.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA