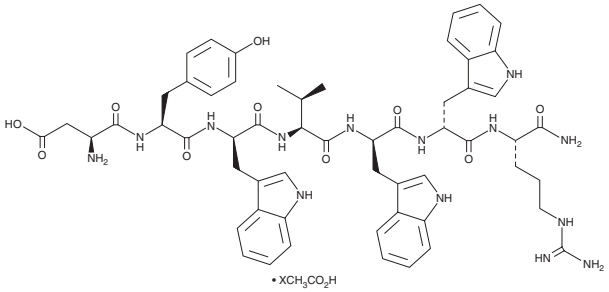
PRODUCT INFORMATION

MEN10207 (acetate)

Item No. 43055

Formal Name: L-α-aspartyl-L-tyrosyl-D-tryptophyl-L-valyl-D-tryptophyl-D-tryptophyl-L-argininamide, acetate
Synonyms: Asp-Tyr-D-Trp-Val-D-Trp-D-Trp-Arg-NH_2, [Tyr^5,D-$Trp^{6,8,9}$,Arg^{10}]-Neurokinin A (4-10), [Tyr^5,D-$Trp^{6,8,9}$,Arg^{10}]-NKA (4-10)
Peptide Sequence: DYwVwwR-NH_2
MF: $C_{57}H_{68}N_{14}O_{10} \bullet XC_2H_4O_2$
FW: 1,109.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MEN10207 (acetate) is supplied as a solid. A stock solution may be made by dissolving the MEN10207 (acetate) in the solvent of choice, which should be purged with an inert gas. MEN10207 (acetate) is soluble (≥10 mg/ml) in DMSO. MEN10207 (acetate) is slightly soluble (0.1-1 mg/ml) in ethanol.

Description

MEN10207 is a peptide neurokinin-2 (NK_2) receptor antagonist.[1] It inhibits contractions induced by neurokinin A (NKA) in endothelium-deprived isolated rabbit pulmonary artery (pA_2 = 7.89), which is endogenously enriched in NK_2 receptors. It is selective for NK_2 receptors in isolated rabbit pulmonary artery over NK_2 receptors in isolated hamster trachea (pA_2 = 5.9 using NKA as an agonist) and NK_1 receptors in isolated guinea pig ileum (pA_2 = 5.52 using substance P methyl ester as an agonist), tissues that highly express these respective receptors, as well as NK_3 receptors in isolated guinea pig cerebral cortex membranes (K_i = >10 µM). *In vivo*, MEN10207 (1 µmol/kg) inhibits increases in bladder motility induced by the NK_2 receptor agonist [β-Ala^8]-NKA (4-10) in anesthetized rats, as well as [β-Ala^8]-NKA (4-10)-induced increases in bronchoconstriction in anesthetized guinea pigs. However, MEN10207 also induces bladder motility in anesthetized rats and bronchoconstriction in anesthetized guinea pigs when administered alone.

Reference

1. Maggi, C.A., Giuliani, S., Ballati, L., *et al. In vivo* evidence for tachykininergic transmission using a new NK-2 receptor-selective antagonist, MEN 10,376. *J. Pharmacol. Exp. Ther.* **257(3)**, 1172-1178 (1991).

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