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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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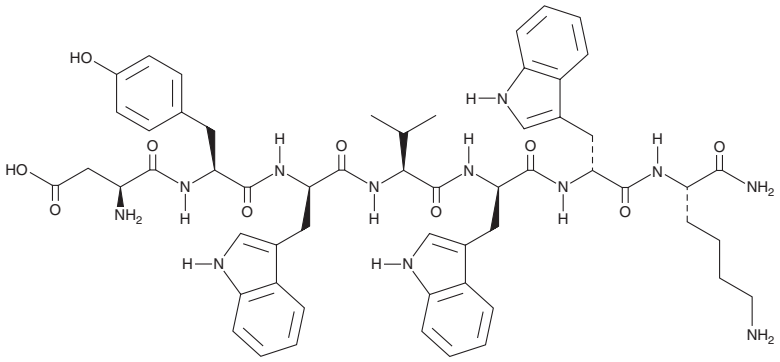
PRODUCT INFORMATION

MEN10376

Item No. 31142

CAS Registry No.:	135306-85-3
Formal Name:	L-α-aspartyl-L-tyrosyl-D-tryptophyl-L-valyl-D-tryptophyl-D-tryptophyl-L-lysinamide
Synonyms:	DYWVWWK-NH_2, Asp-Tyr-Trp-Val-Trp-Trp-Lys-NH_2
MF:	$C_{57}H_{68}N_{12}O_{10}$
FW:	1,081.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 222 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

MEN10376 is supplied as a crystalline solid. A stock solution may be made by dissolving the MEN10376 in the solvent of choice, which should be purged with an inert gas. MEN10376 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of MEN10376 in these solvents is approximately 30 mg/ml.

MEN10376 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MEN10376 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. MEN10376 has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MEN10376 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 = 8.08), 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 = 5.64 using NKA as an agonist) and NK_1 receptors in isolated guinea pig ileum (pA_2 = 5.66 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*, MEN10376 (1 and 3 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.

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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