Men 10376

Cat. No.:	HY-P1276
CAS No.:	135306-85-3
Molecular Formula:	$C_{57}H_{68}N_{12}O_{10}$
Molecular Weight:	1081.22
Sequence:	Asp-Tyr-{d-Trp}-Val-{d-Trp}-{d-Trp}-Lys-NH2
Sequence Shortening:	DY-{d-Trp}-V-{d-Trp}{d-Trp}-K-NH2
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Men 10376 is a selective tachykinin NK-2 receptor antagonist, with a K_i of 4.4 μM for rat small intestine NK-2 receptor.
IC_{50} & Target	Ki: 4.4 μM (NK-2 receptor, rat small intestine)[1]
In Vitro	Men 10376 is a selective tachykinin NK-2 receptor, with a K_i of 4.4 μM, and shows low selectivity for NK-1 and NK-3 receptors (K_i, >10 μM)[1]. Men 10376 shows pA_2s of 5.66 and 8.08 for NK-1 (guinea-pig ileum) and NK-2 receptors (endothelium-deprived rabbit pulmonary artery). Men 10376 shows no effect on NK-3 receptor (K_i, >10 μM)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Men 10376 (1 and 3 μmol/kg) antagonizes increase in bladder motility produced by the NK-2 receptor agonist in rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Authorea. September 19, 2022.

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REFERENCES

[1]. Quartara L, et al. N-terminal truncated analogs of men 10376 as tachykinin NK-2 receptor antagonists. Life Sci. 1992;51(25):1929-36.

[2]. Maggi CA, et al. In vivo evidence for tachykininergic transmission using a new NK-2 receptor-selective antagonist, MEN 10,376. J Pharmacol Exp Ther. 1991 Jun;257(3):1172-8.

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

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