

Men 10376 TFA

Cat. No.:	HY-P1276A	
Molecular Formula:	C ₅₉ H ₆₉ F ₃ N ₁₂ O ₁₂	
Molecular Weight:	1195.25	
Sequence:	Asp-Tyr-{d-Trp}-Val-{d-Trp}-{d-Trp}-Lys-NH ₂	
Sequence Shortening:	DY-{d-Trp}-V-{d-Trp}{d-Trp}-K-NH ₂	
Target:	Neurokinin Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	Protect from light	
	Powder	-80°C 2 years
		-20°C 1 year
	In solvent	-80°C 6 months
		-20°C 1 month

BIOLOGICAL ACTIVITY

Description	Men 10376 TFA is a selective tachykinin NK-2 receptor antagonist, with a K _i of 4.4 μM for rat small intestine NK-2 receptor ^[1] .
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 ₂ s 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] .
In Vivo	Men 10376 (1 and 3 μmol/kg) antagonizes increase in bladder motility produced by the NK-2 receptor agonist in rats ^[2] .

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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