

Neurokinin A(4-10) TFA

Cat. No.:	HY-P0236A		
Molecular Formula:	C ₃₆ H ₅₅ F ₃ N ₈ O ₁₂ S		
Molecular Weight:	880.93		
Sequence:	Asp-Ser-Phe-Val-Gly-Leu-Met-NH ₂		
Sequence Shortening:	DSFVGLM-NH ₂		
Target:	Neurokinin Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month

BIOLOGICAL ACTIVITY

Description	Neurokinin A (4-10) TFA is a tachykinin NK₂ receptor agonist ^[1] .
IC ₅₀ & Target	NK ₂ receptor ^[1]
In Vitro	Neurokinin A (NKA) and its truncated form NKA(4-10) are potent spasmogens of human colon circular muscle, an action mediated exclusively via tachykinin NK ₂ receptors. A structure-activity study of the neurokinin A (NKA) fragment NKA(4-10) is performed to investigate the importance of amino acid residues for receptor efficacy, potency and affinity at the NK ₂ receptor in human colon circular muscle. A high density of NK ₂ receptors has been demonstrated in this tissue, using in vitro autoradiography and radioligand binding ^[1] .

REFERENCES

[1]. Warner FJ, et al. Structure-activity relationship of neurokinin A(4-10) at the human tachykinin NK(2) receptor: the effect of amino acid substitutions on receptor affinity and function. *Biochem Pharmacol.* 2002 Jun 15;63(12):2181-6.

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