Neurokinin A(4-10) TFA

Cat. No.: HY-P0236A

Molecular Formula: $C_{36}H_{55}F_3N_8O_{12}S$

Molecular Weight: 880.93

Sequence: Asp-Ser-Phe-Val-Gly-Leu-Met-NH2

Sequence Shortening: DSFVGLM-NH2

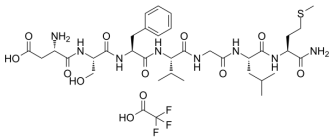
Target: Neurokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture

Powder	-80°C	2 years
	-20°C	1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H_2O : < 0.1 mg/mL (insoluble)

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

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BIOLOGICAL ACTIVITY

Description	Neurokinin A (4-10) TFA is a tachykinin NK_2 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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.