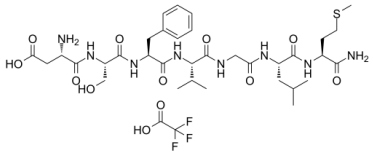
Data Sheet

Product Name:	Neurokinin A(4-10) (TFA)
Cat. No.:	CS-0092588
Molecular Formula:	$C_{36}H_{55}F_3N_8O_{12}S$
Molecular Weight:	880.93
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H2O : 0.67 mg/mL (0.76 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Neurokinin A (4-10) TFA is a **tachykinin NK_2 receptor** agonist[1]. IC50 & 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.

CAIndexNames:

Neurokinin A(4-10) (TFA)

SMILES:

CSCC[C@@H](C(N)=O)NC([C@H](CC(C)C)NC(CNC([C@H](C(C)C)NC([C@H](CC1=CC=CC=C1)NC([C@H](CO)NC([C@H](CC(O)=O)N)=O)=O)=O)=O)=O)=O.OC(C(F)(F)F)=O

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