

Neurokinin A(4-10) TFA(97559-35-8 free base)

Chemical Properties

CAS No. :

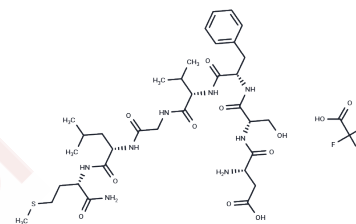
Formula: C₃₆H₅₅F₃N₈O₁₂S

Molecular Weight: 880.93

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Neurokinin A(4-10) TFA(97559-35-8 free base) is a tachykinin NK2 receptor agonist[1].
Targets(IC50)	Neurokinin receptor
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 NK2 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 NK2 receptor in human colon circular muscle. A high density of NK2 receptors has been demonstrated in this tissue, using in vitro autoradiography and radioligand binding[1].

Solubility Information

Solubility	H ₂ O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1352 mL	5.6758 mL	11.3516 mL
5 mM	0.227 mL	1.1352 mL	2.2703 mL
10 mM	0.1135 mL	0.5676 mL	1.1352 mL
50 mM	0.0227 mL	0.1135 mL	0.227 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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