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## Produktinformation



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# PRODUCT INFORMATION



## Neurokinin A (trifluoroacetate salt)

Item No. 24221

**Formal Name:** L-histidyl-L-lysyl-L-threonyl-L- $\alpha$ -aspartyl-L-seryl-L-phenylalanyl-L-valylglycyl-L-leucyl-L-methioninamide, trifluoroacetate salt

**Synonyms:** Neurokinin  $\alpha$ , Neuromedin L, Substance K

**MF:** C<sub>50</sub>H<sub>80</sub>N<sub>14</sub>O<sub>14</sub>S • XCF<sub>3</sub>COOH

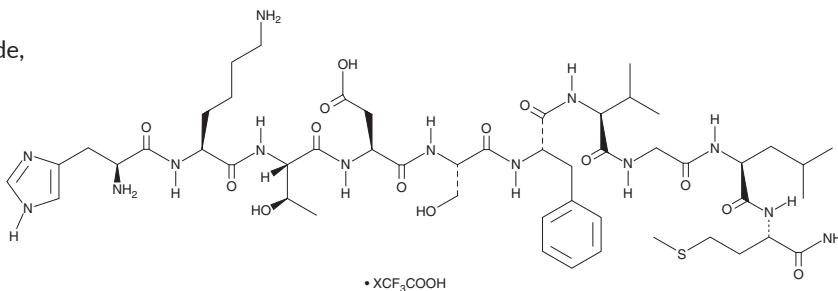
**FW:** 1,133.3

**Purity:**  $\geq$ 95%

**Supplied as:** A lyophilized powder

**Storage:** -20°C

**Stability:**  $\geq$ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Neurokinin A (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the neurokinin A (trifluoroacetate salt) in water. The solubility of neurokinin A (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Neurokinin A is a peptide agonist of the neurokinin-2 (NK<sub>2</sub>) receptor.<sup>1-3</sup> It potentiates electrically-induced contractions of isolated rat vas deferens and increases vasodilation in the rat hind paw.<sup>2</sup> Neurokinin A (0.3-30 nmol/kg, i.v.) induces bronchoconstriction in guinea pigs in a dose-dependent manner (EC<sub>50</sub> = 29 nM), an effect which can be reversed by the NK<sub>2</sub> receptor antagonist MEN 10,207.<sup>1,3</sup>

### References

1. Maggi, C.A., Giuliani, S., Ballati, L., *et al.* *In vivo* evidence for tachykininergic transmission using a new NK-2 receptor-selective antagonist, MEN 10,376. *J. Pharmacol. Exp. Ther.* **257**(3), 1172-1178 (1991).
2. Holzer-Petsche, U., Schimek, E., Amann, R., *et al.* *In vivo* and *in vitro* actions of mammalian tachykinins. *Naunyn Schmiedebergs Arch. Pharmacol.* **330**(2), 130-135 (1985).
3. Laneuville, O., Couture, R., and Pace-Asciak, C.R. Neurokinin A-induced contraction of guinea-pig isolated trachea: Potentiation by hepoxilins. *Br. J. Pharmacol.* **107**(3), 808-812 (1992).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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