



# SZABO SCANDIC

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## Produktinformation



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### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Neurokinin B (trifluoroacetate salt)

Item No. 24542

**Formal Name:** L- $\alpha$ -aspartyl-L-methionyl-L-histidyl-L- $\alpha$ -aspartyl-L-phenylalanyl-L-phenylalanyl-L-valylglycyl-L-leucyl-L-methioninamide, 2,2,2-trifluoroacetate

**Synonyms:** Neurokinin  $\beta$ , Neuromedin K

**MF:** C<sub>55</sub>H<sub>79</sub>N<sub>13</sub>O<sub>14</sub>S<sub>2</sub> • XCF<sub>3</sub>COOH

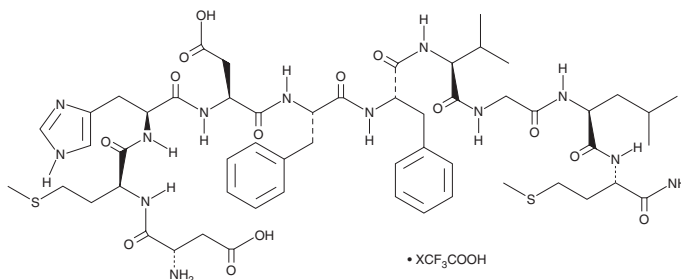
**FW:** 1,210.4

**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 B (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the neurokinin B (trifluoroacetate salt) in the solvent of choice. Neurokinin B (trifluoroacetate salt) is soluble in the organic solvent formic acid, which should be purged with an inert gas, at a concentration of approximately 1 mg/ml.

### Description

Neurokinin B is a tachykinin peptide agonist of the neurokinin-3 receptor (NK<sub>3</sub>; K<sub>i</sub> = 0.8 nM).<sup>1,2</sup> *In vitro*, neurokinin B dose-dependently induces calcium mobilization in HEK293 cells expressing NK<sub>3</sub> (EC<sub>50</sub> = 0.5 nM), an effect inhibited by NK<sub>3</sub> antagonists. Neurokinin B potentiates electrically-induced contractions in rat vas deferens and increases vasodilation in rat hind paw in a dose-dependent manner.<sup>1</sup> In juvenile male rhesus monkeys, neurokinin B (100  $\mu$ g, i.v.) stimulates luteinizing hormone (LH) release and acts within the hypothalamus, suggesting a role in initiating puberty.<sup>4</sup>

### References

1. 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).
2. Sarau, H.M., Griswold, D.E., Potts, W., et al. Nonpeptide tachykinin receptor antagonists: I. Pharmacological and pharmacokinetic characterization of SB 223412, a novel, potent and selective neurokinin-3 receptor antagonist. *J. Pharmacol. Exp. Ther.* **281(3)**, 1303-1311 (1997).
3. Ramaswamy, S., Seminara, S.B., Ali, B., et al. Neurokinin B stimulates GnRH release in the male monkey (*Macaca mulatta*) and is colocalized with kisspeptin in the arcuate nucleus. *Endocrinology* **151(9)**, 4494-4503 (2010).

#### 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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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD

ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897

[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM