

## Product Data Sheet

Product Name: Neurokinin B (trifluoroacetate salt)

Cat. No.: GC44373

### Chemical Properties

Cas. No.

SMILES O=C(N[C@H](C(N[C@@H](CC1=CC=CC=C1)C(N[C@H](C(N[C@H](C(NCC(N[C@H](C(N[C@H](C(N)=O)CCSC)=O)CC(C)C)=O)=O)C(C)C)=O)CC2=CC=CC=C2)=O)C(C(O)=O)[C@@H](NC([C@@H](NC([C@H](CC(O)=O)N)=O)CCSC)=O)CC3=CNC=N3.OC(C(F)(F)F)=O

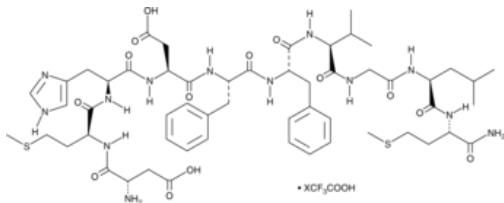
Formula C<sub>55</sub>H<sub>79</sub>N<sub>13</sub>O<sub>14</sub>S<sub>2</sub> •XCF<sub>3</sub>COOH M.Wt 1210.4

Solubility Formic Acid: 1 mg/ml Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure



### Background

Neurokinin B is a tachykinin peptide agonist of the neurokinin-3 receptor (NK3;  $K_i = 0.8$  nM). In vitro, neurokinin B dose-dependently induces calcium mobilization in HEK293 cells expressing NK3 ( $EC_{50} = 0.5$  nM), an effect inhibited by NK3 antagonists. Neurokinin B potentiates electrically-induced contractions in rat vas deferens and increases vasodilation in rat hind paw in a dose-dependent manner. In juvenile male rhesus monkeys, neurokinin B (100 µg, i.v.) stimulates luteinizing hormone (LH) release and acts within the hypothalamus, suggesting a role in initiating puberty.

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

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