Product Data Sheet

Product Name: Neurokinin B (trifluoroacetate salt)
Cat. No.: GC44373

Chemical Properties

Cas. No.

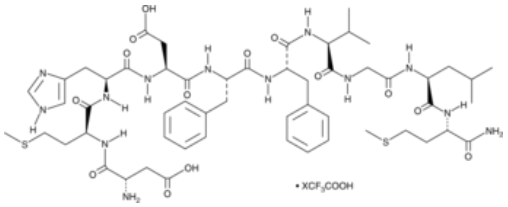
SMILES O=C(N[C@H](C(N[C@@H](CC1=CC=CC=C1)C(N[C@H](C(N[C@H](C(NCC(N[C@H](C(N[C@H](C(N)=O)CCSC)=O)CC(C)C)=O)=O)C(C)C)=O)CC2=CC=CC=C2)=O)=O)CC(O)=O)[C@@H](NC([C@@H](NC([C@H](CC(O)=O)N)=O)CCSC)=O)CC3=CNC=N3.OC(C(F)(F)F)=O

Formula	C55H79N13O14S2 •XCF3COOH	M.Wt	1210.4
Solubility	Formic Acid: 1 mg/ml	Storage	Store at -20°C

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

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

Structure



Background

Neurokinin B is a tachykinin peptide agonist of the neurokinin-3 receptor (NK3; Ki = 0.8 nM). In vitro, neurokinin B dose-dependently induces calcium mobilization in HEK293 cells expressing NK3 (EC50 = 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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