



LKT Laboratories, Inc.

Neurokinin A (4-10)

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Product Information

Product ID N1977

CAS No. 97559-35-8

Chemical Name

Synonym Substance K

Formula C₃₄H₅₄N₈O₁₀S

Formula Wt. 766.92

Melting Point

Purity ≥95%

Solubility Soluble in water, DMSO.

Store Temp -20°C

Ship Temp Ambient

Description Neurokinin A is an endogenous neuromodulatory peptide formerly known as substance K. Like other neurokinins, neurokinin A induces contraction in ileal smooth muscle cells and contributes to nociceptive activity. Neurokinin A exhibits pro-inflammatory, bronchoconstrictive, and vasodilatory activities. In macrophages, neurokinin A binds neurokinin 1/2 (NK1/2) receptors, activating ERK1/2, PI3K/Akt, and NF-κB increasing expression of inflammatory cytokines. Neurokinin A also promotes vasodilation, decreases heart rate, and induces bronchoconstriction in animal models.

H-Asp-Ser-Phe-Val-Gly-Leu-Met-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
N1977	1 mg	\$88.10
N1977	2 mg	\$149.90
N1977	5 mg	\$264.70

References Sun J, Ramnath RD, Tamizhselvi R, et al. Neurokinin A engages neurokinin-1 receptor to induce NF-kappaB-dependent gene expression in murine macrophages: implications of ERK1/2 and PI 3-kinase/Akt pathways. *Am J Physiol Cell Physiol.* 2008 Sep;295(3):C679-91. PMID: 18596216.

Fusco M, D'Andrea G, Micciché F, et al. Neurogenic inflammation in primary headaches. *Neurol Sci.* 2003 May;24 Suppl 2:S61-4. PMID: 12811594.

Suzuki N, Mizuno K, Gomi Y. Tachykinin-induced contractions in the circular muscle of guinea pig ileum. *Jpn J Pharmacol.* 1994 Jul;65(3):233-40. PMID: 7528285.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.