



LKT Laboratories, Inc.

Neurokinin B

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Product Information

Product ID N1978

CAS No. 86933-75-7

Chemical Name

Synonym Neurokinin K

Formula $C_{55}H_{79}N_{13}O_{14}S_2$

Formula Wt. 1210.45

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (0.8 mg/mL), ammonium hydroxide.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description

Neurokinin B is an endogenous neuromodulatory peptide that binds the neurokinin 3 (NK3) receptor and is co-expressed with kisspeptin and dynorphin A. Neurokinin B increases osteoclast activity and bone resorption in vitro and induces contraction in ileal smooth muscle cells. Neurokinin B also exhibits neuroprotective activity, decreasing toxic effects of amyloid- β (A β) by increasing superoxide dismutase (SOD) activity, decreasing monoamine oxidase (MAO) activity, and restoring intracellular Ca^{2+} levels. Neurokinin B may also be used as a biomarker for pregnancy-induced hypertension and pre-eclampsia.

Asp-Met-His-Asp-Phe-Phe-Val-Gly-Leu-Met-NH₂

Bulk quantities available upon request

Product ID	Size
N1978	1 mg
N1978	2 mg
N1978	5 mg

References Ichiki T, Kuroishi KN, Gunjigake KK, et al. Neurokinin B activates the formation and bone resorption activity of rat osteoclasts. *Neuropeptides*. 2011 Jun;45(3):239-44. PMID: 21514667

Mantha AK, Moorthy K, Cowsik SM, et al. Neuroprotective role of neurokinin B (NKB) on beta-amyloid (25-35) induced toxicity in aging rat brain synaptosomes: involvement in oxidative stress and excitotoxicity. *Biogerontology*. 2006 Feb;7(1):1-17. PMID: 16518716.

Page NM, Woods RJ, Gardiner SM, et al. Excessive placental secretion of neurokinin B during the third trimester causes pre-eclampsia. *Nature*. 2000 Jun 15;405(6788):797-800. PMID: 10866201.

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.