



LKT Laboratories, Inc.

Neurotensin (9-13)

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Product Information

Product ID N1993

CAS No.

Chemical Name

Synonym

Formula $C_{32}H_{52}N_8O_7$

Formula Wt. 660.82

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

H-Arg-Pro-Tyr-Ile-Leu-OH

Bulk quantities available upon request

Product ID	Size
N1993	5 mg
N1993	10 mg
N1993	25 mg

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

Ship Temp Ambient

Description Neurotensin is a tridecapeptide that exhibits antinociceptive, pro-inflammatory, and gastrointestinal motility modulating activities. Neurotensin induces contractions in smooth muscle cells, playing a role in regulating digestive activity in vitro and in vivo. Additionally, neurotensin induces intracellular Ca^{2+} release, activating non-selective cation channels and altering pacemaker currents involved in gastrointestinal and colonic motility. In animal models, neurotensin displays sympatho-inhibitory activity, decreases blood pressure and heart rate. Neurotensin exerts its actions through activation of neurotensin receptors; activation of these receptors also stimulates orexin neurons, suggesting a role for neurotensin in mediation of reward, feeding, and wakefulness.

References Kleczkowska P, Lipkowski AW. Neurotensin and neurotensin receptors: characteristic, structure-activity relationship and pain modulation--a review. *Eur J Pharmacol.* 2013 Sep 15;716(1-3):54-60. PMID: 23500196.

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