

Product Information

Product ID N1979

CAS No. 102577-25-3

Chemical Name

Synonym Neuromedin N

Formula C₃₈H₆₃N₇O₈

Formula Wt. 745.97

Melting Point

Purity ≥95%

Solubility Soluble in water (0.5 mg/mL).

Store Temp -20°C

Ship Temp Ambient

Description Neuromedin N is an endogenous proneurotensin peptide involved in energy homeostasis regulation; it modulates hypothalamic thermoregulatory signaling in animal models and induces contraction in ileal smooth muscle cells. Neuromedin N also inhibits reward/reinforcement signaling by inhibiting the intracranial self-stimulation (ICSS) in animal models of reward and reinforcement. Src activates proneurotensin/neuromedin N promoter activity in a Raf-dependent manner. Additionally, neuromedin N is inactivated by dipeptidyl peptidases and aminopeptidases.

H-Lys-Ile-Pro-Tyr-Ile-Leu-OH

Bulk quantities available upon request

Product ID	Size
N1979	1 mg
N1979	2 mg
N1979	5 mg

References Basir YJ, Knoop FC, Dulka J, et al. Multiple antimicrobial peptides and peptides related to bradykinin and neuromedin N isolated from skin secretions of the pickerel frog, *Rana palustris*. *Biochim Biophys Acta*. 2000 Nov 30;1543(1):95-105. PMID: 11087945.

Banker NA, Hellmich MR, Kim HJ, et al. Src-mediated activation of the human neurotensin/neuromedin N promoter. *Surgery*. 1997 Aug;122(2):180-6. PMID: 9288121.

Fernández R, Alba F, Ferrer JM. Peptidase inhibitors potentiate the effects of neurotensin and neuromedin N on self-stimulation of the medial prefrontal cortex. *Neuroreport*. 1996 Feb 29;7(3):798-800. PMID: 8733748.

Barelli H, Woskowska Z, Cipris S, et al. Pharmacological role and degradation processes of neuromedin N in the gastrointestinal tract: an in vitro and in vivo study. *J Pharmacol Exp Ther*. 1995 Dec;275(3):1300-7. PMID: 8531096.

Malendowicz LK, Nussdorfer GG, Markowska A, et al. Investigations on the acute effects of neuropeptides on the pituitary-adrenocortical function in normal and cold-stressed rats. II. Neurotensin and neuromedin N. *Exp Toxicol Pathol*. 1995 Jan;47(1):41-5. PMID: 7719120.

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