



## Product Information

**Product ID** N1988

**CAS No.** 114882-65-4

**Chemical Name**

**Synonym** gamma-neuropeptide

**Formula** C<sub>99</sub>H<sub>158</sub>N<sub>34</sub>O<sub>29</sub>S

**Formula Wt.** 2320.64

**Melting Point**

**Purity** ≥95%

**Solubility** Soluble in water.

H-Asp-Ala-Gly-His-Gly-Gln-Ile-Ser-His-Lys-Arg-His-Lys-Thr-Asp-Ser-Phe-Val-Gly-Leu-Met-NH<sub>2</sub>

Product ID	Size
N1988	0.5 mg
N1988	1 mg
N1988	2.5 mg

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** γ-Neuropeptide is an endogenous tachykinin/neurokinin peptide that binds neurokinin (NK) receptors, displaying some selectivity for NK2 isoforms. This peptide mediates hypothalamic-pituitary-adrenal (HPA) axis signaling and reproductive hormone release, inhibiting hypothalamic secretion of luteinizing hormone (LH). Additionally, γ-neuropeptide induces vasodilation and hypotensive activity in vivo. γ-Neuropeptide may play a role in gastrointestinal motility, as it stimulates smooth muscle contraction in the gastrointestinal tract; it also stimulates smooth muscle contraction in the respiratory tract. γ-Neuropeptide forms complexes with Cu(II) as well.

**References** Pietruszka M, Jankowska E, Kowalik-Jankowska T, et al. Complexation abilities of neuropeptide gamma toward copper(II) ions and products of metal-catalyzed oxidation. *Inorg Chem.* 2011 Aug 15;50(16):7489-99. PMID: 21770367.

Kim EJ, Kim CH, Seo JK, et al. Structure-activity relationship of neuropeptide gamma derived from mammalian and fish. *J Pept Res.* 2005 Dec;66(6):395-403. PMID: 16316456.

Debeljuk L, Lasaga M. Modulation of the hypothalamo-pituitary-gonadal axis and the pineal gland by neurokinin A, neuropeptide K and neuropeptide gamma. *Peptides.* 1999;20(2):285-99. PMID: 10422885.

Yuan L, Burcher E, Nail BS. Characterization of tachykinin receptors mediating bronchomotor and vasodepressor responses to neuropeptide gamma and substance P in the anaesthetized rabbit. *Pulm Pharmacol Ther.* 1998 Feb;11(1):31-9. PMID: 9802961.

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