



## Genemed Synthesis, Inc.

6203 Wood Lake Center Dr., Bldg. 2, San Antonio, TX 78244, USA  
**Toll free** (800) 344-5337; **Phone:** (210) 745-5988; **Fax** (210) 745-5992  
**Email:** [info@genemedsyn.com](mailto:info@genemedsyn.com), **Website:** [www.genemedsyn.com](http://www.genemedsyn.com)

### Product Data Sheet

**Cat#:** SP-100067-1

**Description:** Neuropeptide Y (2-36) (human, rat) (AA: Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 4108.6)

**Size:** 1 mg

**Purity:** >95%

**Form:** Powder

**Store:** Desiccated at -20oC.

Neuropeptide Y (NPY), a neuropeptide colocalized and abundantly released with the neurotransmitter norepinephrine in nervous system, synthesized by postnatal olfactory epithelium of sustentacular cells. It promotes the proliferation of postnatal neuronal precursor cells and exhibits a diverse range of important physiologic activities, including effects on psychomotor activity, food intake, regulation of central endocrine secretion, and potent vasoactive effects on the cardiovascular system.

NPY precursor is a 97-aa peptide in mouse, human (chr 7p15.1) and 98-aa in rat has a mol. wt of 11kD. The precursor contains a 28-aa signal peptide, 29-64 (active processed NPY peptide) followed by the C-flanking peptide of NPY. NPY shows sequence homology to Peptide YY (PYY) and over 50% homology in amino acid and nucleotide sequence to Pancreatic Polypeptide (PNP or PPY), all of these homologous peptides has a 36-aa mature peptide characterized by a hairpin loop.

#### Related Items

##### Cat# Product Description

SP-100057-1 Neuropeptide W-30 (rat) (AA: Trp-Tyr-Lys-His-Val-Ala-Ser-Pro-Arg-Tyr-His-Thr-Val-Gly-Arg-Ala-Ser-Gly-Leu-Leu-Met-Gly-Leu-Arg-Arg-Ser-Pro-Tyr-Leu-Trp) (MW: 3559.17)

SP-100058-1 Biotin-Neuropeptide Y (human, rat) (AA: Biotin-Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 4515.1)

SP-100059-1 [Leu31,Pro34]-Neuropeptide Y (human, rat) [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Leu-Thr-Arg-Pro-Arg-Tyr-NH<sub>2</sub>; MW: 4222.7]

SP-100060-1 [D-Trp32]-Neuropeptide Y (human) [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-D-Trp-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW: 4356.9]

SP-100061-1 Neuropeptide Y (porcine) (AA:Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 4253.7)

SP-100062-1 [Ala31, Aib32]-Neuropeptide Y (porcine) [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-

Leu-Arg-His-Tyr-Ile-Asn-Leu-Ala-Aib-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW: 4194.63]

SP-100063-1 [Leu31,Pro34]-Neuropeptide Y (porcine) [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Leu-Thr-Arg-Pro-Arg-Tyr-NH<sub>2</sub>; MW: 4240.8]

SP-100064-1 [Pro34]-Neuropeptide Y (porcine) [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Pro-Arg-Tyr-NH<sub>2</sub>; MW: 4222.7]

SP-100065-1 [D-Trp32]-Neuropeptide Y (porcine) [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-D-Trp-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW: 4356.9]

SP-100066-1 Neuropeptide Y (1-24) amide (human, rat) (AA: Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-NH<sub>2</sub>) (MW: 2657.1)

SP-100067-1 Neuropeptide Y (2-36) (human, rat) (AA: Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 4108.6)

SP-100068-1 Neuropeptide Y (2-36), amide, porcine (AA: Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 4090.6)

SP-100069-1 Neuropeptide Y (3-36) (porcine) (AA: Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 3993.4)

SP-100070-1 Neuropeptide Y (13-36), human (AA: Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 3000.46)

SP-100071-1 [Leu31,Pro34]-Neuropeptide Y (13-36) (human, rat) [Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Leu-Thr-Arg-Pro-Arg-Tyr-NH<sub>2</sub>; MW: 2969.45]

SP-100072-1 Neuropeptide Y (13-36) (porcine) (AA: Pro-Ala-Glu-Asp-Leu-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 2982.4)



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SP-100073-1 Neuropeptide Y (18-36) (AA: Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 3000.5)  
SP-100074-1 Pancreatic Polypeptide (1-17)-(Ala<sup>31</sup>,Aib<sup>32</sup>)-Neuropeptide Y (18-36) (human) (AA: Ala-Pro-Leu-Glu-Pro-Val-Tyr-Pro-Gly-Asp-Asn-Ala-Thr-Pro-Glu-Gln-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ala-Aib-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 4124.7)  
SP-100075-1 Neuropeptide Y (22-36) (AA: Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 1903.2)  
SP-100076-5 Ac-[Leu<sup>28,31</sup>]-Neuropeptide Y (24-36) [Ac-Leu-Arg-His-Tyr-Leu-Asn-Leu-Leu-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>] (MW: 1787.1)]  
SP-52282-5 Neuropeptide FFF-8-F-NH<sub>2</sub>; Phe-Leu-Phe-Gln-Pro-Gln-Arg-Phe-NH<sub>2</sub>; MW 181.3  
SP-52283-1 neuropeptide K, porcine; H-Asp-Ala-Asp-Ser-Ser-Ile-Glu-Lys-Gln-Val-Ala-Leu-Leu-Lys-Ala-Leu-Tyr-Gly-His-Gly-Gln-Ile-Ser-His-Lys-Arg-His-Lys-Thr-Asp-Ser-Val-Gly-Leu-Met-NH<sub>2</sub>; MW 598.6  
SP-52284-1 Neuropeptide Y, human, rat; H-Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW 4271.78  
SP-52287-1 Octaneuropeptide; Arg-Pro-Gly-Leu-Leu-Asp-Leu-Lys-OH; MW: 911.1  
SP-101036-1 Galanin (1-13)-Neuropeptide Y (25-36), amide (M32) (AA: Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>) (MW: 2962.4)  
SP-101113-1 [D-Arg<sup>25</sup>]-Neuropeptide Y, human, rat; [D-Arg<sup>25</sup>]-NPY, human, rat [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-D-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW: 4271.80]  
SP-101114-1 [Pro<sup>34</sup>]-Neuropeptide Y, human, rat; [Pro<sup>34</sup>]-NPY, human, rat [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Pro-Arg-Tyr-NH<sub>2</sub>; MW 4271.8]  
SP-101115-1 [D-His<sup>26</sup>]-Neuropeptide Y, human, rat; [D-His<sup>26</sup>]-NPY, human, rat [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-D-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW: 4271.7]  
SP-101116-1 [D-Tyr<sup>27,36</sup>, D-Thr<sup>32</sup>]-Neuropeptide Y, human [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-D-Tyr-Ile-Asn-Leu-Ile-D-Thr-Arg-Gln-Arg-D-Tyr-NH<sub>2</sub>; MW: 4271.8]  
SP-101117-1 [Thr<sup>30</sup>]-Neuropeptide Y, human [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Thr-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW 4259.7]  
SP-101118-1 [D-Trp<sup>34</sup>]-Neuropeptide Y, human; [D-Trp<sup>34</sup>]-NPY, human [Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW: 4329.8]  
SP-101119-1 Neuropeptide Y-Lys(Biotin), human, rat; NPY-Lys(Biotin), human, rat (AA: Biotin-Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-Lys) (MW: 4515.1)  
SP-101120-5 [D-Tyr<sup>27,36</sup>, D-Thr<sup>32</sup>]-Neuropeptide Y (27-36), rat; [D-Tyr<sup>27,36</sup>, D-Thr<sup>32</sup>]-NPY (27-36), rat [D-Tyr-Ile-Asn-Leu-Ile-D-Thr-Arg-Gln-Arg-D-Tyr-NH<sub>2</sub>; MW: 1338.6]  
SP-101855-5 FMRF-like Neuropeptide; SchistoFLRFamide (AA: Pro-Asp-Val-Asp-His-Val-Phe-Leu-Arg-Phe-NH<sub>2</sub>) (MW: 1243.44)  
SP-101856-1 Neuropeptide F (AA: Pro-Asp-Lys-Asp-Phe-Ile-Val-Asn-Pro-Ser-Asp-Leu-Val-Leu-Asp-Asn-Lys-Ala-Ala-Leu-Arg-Asp-Tyr-Leu-Arg-Gln-Ile-Asn-Glu-Tyr-Phe-Ala-Ile-Ile-Gly-Arg-Pro-Arg-Phe-NH<sub>2</sub>) (MW: 4593.27)  
SP-57893-5 Neuropeptide EI (human, mouse, rat) (AA: Glu-Ile-Gly-Asp-Glu-Glu-Asn-Ser-Ala-Lys-Phe-Pro-Ile-NH<sub>2</sub>) (MW: 1447.58)  
SP-67873-1 Neuropeptide Y (free acid) (human) (AA: Tyr-Pro-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr) (MW: 4272.8)  
SP-68624-1 Neuropeptide AF (hNPAP), Human (AA: Ala-Gly-Glu-Gly-Leu-Asn-Ser-Gln-Phe-Trp-Ser-Leu-Ala-Ala-Pro-Gln-Arg-Phe-NH<sub>2</sub>) (MW: 1978.21)  
SP-86564-5 Hypertrehalosaemic Neuropeptide, Heliothis zea (AA: Pyr-Leu-Thr-Phe-Ser-Ser-Gly-Trp-Gly-Asn-NH<sub>2</sub>) (MW: 1078.17)  
SP-86565-5 Hypertrehalosaemic Neuropeptide, Nauphoeta cinerea (AA: Pyr-Val-Asn-Phe-Ser-Pro-Gly-Trp-Gly-Thr-NH<sub>2</sub>) (MW: 1074.19)  
SP-89042-1 A-18-F-NH<sub>2</sub>; Morphine Modulating Neuropeptide [Ala-Gly-Glu-Gly-Leu-Ser-Ser-Pro-Phe-Trp-Ser-Leu-Ala-Ala-Pro-Gln-Arg-Phe-NH<sub>2</sub>] (MW: 1920.7)]  
SP-89381-5 Bradykinin-Like Neuropeptide (Aplysia californica) (AA: Met-Lys-Arg-Ser-Arg-Gly-Pro-Ser-Pro-Arg-Arg) (MW: 1327.59)  
SP-89382-5 Bradykinin-Like Neuropeptide (3-11) (Aplysia californica) (AA: Arg-Ser-Arg-Gly-Pro-Ser-Pro-Arg-Arg) (MW: 1068.22)  
SP-89914-1 Neuropeptide EI-Gly-Arg-Arg-MCH (human, mouse, rat) (AA: Glu-Ile-Gly-Asp-Glu-Glu-Asn-Ser-Ala-Lys-Phe-Pro-Ile-Gly-Arg-Arg-Asp-Phe-Asp-Met-Leu-Arg-Cys-Met-Leu-Gly-Arg-Val-Tyr-Arg-Pro-Cys-Trp-Gln-Val (Disulfide bridge:C23-C32)) (MW: 4186.86)  
SP-55218-1f  $\gamma$ -Neuropeptide, Rabbit; 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>; MW 232.64  
SP-55294-5 Neuropeptide Y (3-36) human; H-Ser-Lys-Pro-Asp-Asn-Pro-Gly-Glu-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Tyr-Ser-Ala-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH<sub>2</sub>; MW 4011.48

SP-100067-1 120417V

All peptides are for in vitro research use only.