



# LKT Laboratories, Inc.

## Neuropeptide Y (13-36), human

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### Product Information

Product ID N1987

CAS No. 122341-40-6

Chemical Name

Synonym NPY

Formula  $C_{134}H_{207}N_{41}O_{36}S$

Formula Wt. 3000.46

Melting Point

Purity  $\geq 95\%$

Solubility

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

Ship Temp Ambient

**Description** Neuropeptide Y (NPY) is an endogenous neurotransmitter that exhibits a variety of properties, including vasoconstrictive/hypertensive, neuromodulatory, cognition enhancing, reward and reinforcement-modulating, antidepressant, anxiolytic, pro-angiogenic, and pro-atherosclerotic activities. NPY is produced by sympathetic nervous system neurons and activates Y receptors. In vivo, NPY potentiates reward- and reinforcement-inducing effects of opioids in operant behavior assays. In other animal models, NPY inhibits amyloid- $\beta$  (A $\beta$ )-induced depression and spatial memory deficits in the tail suspension and object location tasks. NPY also decreases or prevents stress-induced development of anxiety during the forced swim test and elevated plus maze models. Additionally, NPY promotes vascular growth and may play a role in the development of atherosclerosis.

H-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>

### Pricing and Availability

*Bulk quantities available upon request*

| Product ID | Size   | List Price |
|------------|--------|------------|
| N1987      | 0.5 mg | \$192.20   |
| N1987      | 1 mg   | \$321.40   |
| N1987      | 2.5 mg | \$567.00   |

**References** Wang Q, Wang M, Whim MD. Neuropeptide y gates a stress-induced, long-lasting plasticity in the sympathetic nervous system. J Neurosci. 2013 Jul 31;33(31):12705-17. PMID: 23904607.

Desai SJ, Upadhyaya MA, Subhedar NK, et al. NPY mediates reward activity of morphine, via NPY Y1 receptors, in the nucleus accumbens shell. Behav Brain Res. 2013 Jun 15;247:79-91. PMID: 23511250

dos Santos VV, Santos DB, Lach G, et al. Neuropeptide Y (NPY) prevents depressive-like behavior, spatial memory deficits and oxidative stress following amyloid- $\beta$  (A $\beta$ (1-40)) administration in mice. Behav Brain Res. 2013 May 1;244:107-15. PMID: 23396168

Serova LI, Tillinger A, Alaluf LG, et al. Single intranasal neuropeptide Y infusion attenuates development of PTSD-like symptoms to traumatic stress in rats. Neuroscience. 2013 Apr 16;236:298-312. PMID: 23376740.

Zukowska Z, Pons J, Lee EW, et al. Neuropeptide Y: a new mediator linking sympathetic nerves, blood vessels and immune system? Can J Physiol Pharmacol. 2003 Feb;81(2):89-94. PMID: 12710520.

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