



LKT Laboratories, Inc.

Neuropeptide Y (13-36), human

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID N1987
CAS No. 122341-40-6

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-NH₂

Chemical Name

Synonym NPY

Formula C₁₃₄H₂₀₇N₄₁O₃₆S
Formula Wt. 3000.46
Melting Point
Purity ≥95%
Solubility

Bulk quantities available upon request

| Product ID | Size |
|------------|--------|
| N1987 | 0.5 mg |
| N1987 | 1 mg |
| N1987 | 2.5 mg |

Store Temp -20° 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-β (Aβ)-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.

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-β (Aβ(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.