



# LKT Laboratories, Inc.

## Neuropeptide F

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### Product Information

Product ID N6020

CAS No.

Chemical Name

Synonym NPF

Formula  $C_{51}H_{80}N_{15}O_{19}P$

Formula Wt. 768.79

Melting Point

Purity  $\geq 95\%$

Solubility

H-Lys-Arg-Ser-Tyr( $PO_3H_2$ )-Glu-  
Glu-His-Ile-Pro-OH

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
N6020	1 mg	\$201.90
N6020	2 mg	\$340.20
N6020	5 mg	\$604.90

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

Ship Temp Ambient

**Description** Neuropeptide F (NPF) is a neuropeptide Y-like ortholog found in insects and gastropods. NPF modulates sleep activity, suppressing signaling of wake-promoting ventrolateral clock neurons. NPF also modulates cAMP/PKA/CREB signaling in animal models. Additionally, NPF plays a role in learning, stress responses, feeding, and courtship behavior; in male locusts, NPF increases the weight of the testes and seminal vesicles.

**References** Shang Y, Donelson NC, Vecsey CG, et al. Short neuropeptide F is a sleep-promoting inhibitory modulator. *Neuron*. 2013 Oct 2;80(1):171-83. PMID: 24094110.

Chen W, Shi W, Li L, et al. Regulation of sleep by the short neuropeptide F (sNPF) in *Drosophila melanogaster*. *Insect Biochem Mol Biol*. 2013 Sep;43(9):809-19. PMID: 23796436.

Van Wielendaele P, Wynant N, Dillen S, et al. In vivo effect of Neuropeptide F on ecdysteroidogenesis in adult female desert locusts (*Schistocerca gregaria*). *J Insect Physiol*. 2013 Jun;59(6):624-30. PMID: 23524065.

Van Wielendaele P, Wynant N, Dillen S, et al. Neuropeptide F regulates male reproductive processes in the desert locust, *Schistocerca gregaria*. *Insect Biochem Mol Biol*. 2013 Mar;43(3):252-9. PMID: 23295785.

Leung PS, Shaw C, Johnston CF, et al. Immunocytochemical distribution of neuropeptide F (NPF) in the gastropod mollusc, *Helix aspersa*, and in several other invertebrates. *Cell Tissue Res*. 1994 Feb;275(2):383-93. PMID: 8111844.

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