Product Data Sheet

Product Name: Neuropeptide Y, human, rat

Catalog Number: AS-22464 (0.5 mg)  Lot Number: See label on vial AS-22465 (1 mg)

Sequence: H-Tyr-Pro-Ser-Lys-Pro-Asp-Asp-Ala-Pro-Ala-Glu-Asp-Met-Ala-Arg-Tyr-Ser-Ala-Leu-Arg-His-Tyr-Ile-Asn-Leu-Ile-Thr-Arg-Gln-Arg-Tyr-NH2 (3-letter code)
YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NH2 (1-letter code)

Molecular Weight: 4271.8
Peptide Purity: >95%
Appearance: Lyophilized white powder

Peptide Reconstitution: Neuropeptide Y is freely soluble in water.

Storage: Neuropeptide Y is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20 °C or lower.


Description: Human NPY, rPP, D-Trp34 NPY, D-Arg25 NPY, C2-NPY, and cPP NPY were synthesized by AnaSpec (San Jose, CA). All peptides were dissolved in 0.9% sterile saline (Sigma, St. Louis, MO) and infused icv at 1 nmol, which was the minimal effective dose of D-Trp34 NPY and D-Arg25 NPY on feeding at the 1-h time point-Gao, J. et al. Am J Physiol Endocrinol Metab 287, E706 (2004).

The doses of intra-hippocampal injection of NPY (10 μg/μl, AnaSpec Company) and 5-HT (31.25 μg/μl, Sigma Company) were chosen according to previous studies. On days 1, 7, 14 and 21, rats received microinjection of 1 μl of 0.9% physiological saline for control and CUMS groups, 1 μl of NPY for NPY group, and 1 μl of 5-HT for 5-HT group. Each intra-hippocampal microinjection was made before stressing. The injection was manually delivered at the speed of 1 μl/min -.Luo, DD. et al. Brain Res. Bullet. 77, 8 (2008).

Published Citations:


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