

Neuropeptide Y [3-36]

Subcategory: Synthetic Peptide

Cat. No.: 350289

Unit: 1 mg

Description:

Neuropeptide Y (NPY) is a 36-aa neuropeptide that acts as a neurotransmitter in the brain and in the autonomic nervous system of humans. In the autonomic system, NPY is produced mainly by neurons of the sympathetic nervous system and serves as a strong vasoconstrictor and also causes growth of fat tissue. In the brain, NPY is produced in various locations including the hypothalamus. NPY has several functions: increasing food intake and storage of energy as fat, reducing anxiety and stress, reducing pain perception, affecting circadian rhythm, reducing voluntary alcohol intake, lowering blood pressure, and controlling epileptic seizures. NPY has been studied for its role in obesity by interacting with the leptin receptor and neuropeptide Y receptors. NPY [3-36] binds selectively to Y1 and Y5 receptors. It binds to Y1 receptor with a lower affinity than NPY.

Format: Each vial contains 1 mg of lyophilized solid packaged under an inert gas and supplied as a trifluoroacetate salt.

Alternate Names: Neuropeptide Y; NPY; C-flanking peptide of NPY; NPY(3-36)

Accession No.: P01303

MW: 4011.48 g/mol

Sequence: Human: H-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-NH₂ or H-SKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NH₂

Composition: C175H269N53O54S1

Purity: Purity > 95% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, aliquot and store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.