

Biotin-Neuropeptide Y (human, rat)

PRODUCT DESCRIPTION

Biotin-Neuropeptide Y (human, rat) is a 44-amino-acid A peptide from the neuropeptide Y (NPY) family, one of the most abundant neuropeptides in the brain. NPY signals through Y1-Y5 receptors to regulate appetite, energy balance, anxiety, circadian rhythms, and cardiovascular function. Used in neuroscience, metabolic, and cardiovascular research for studying feeding behavior, stress responses, and sympathetic nervous system regulation.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1774
Molecular Weight	4497.9679 Da
Molecular Formula	C199H299N57O59S2
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Biotin-YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY-NH2

Three-Letter Code:

Biotin-Tyr-Pro-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

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	NPY Receptors (Y1-Y5)
Research Area	Neuroscience
Sub-category	Neuropeptide Y & Energy Metabolism

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
Usage	Research use

QUALITY CONTROL

Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request