NPY Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	NPY, Blocking Peptide
Full Product Name	NPY Blocking Peptide
Product Gene Name	NPY blocking peptide
Product Synonym Names	C-flanking peptide of NPY; CPON; Neuropeptide tyrosine; Neuropeptide Y precursor; NPY; NPY_HUMAN; Pro neuropeptide Y; PYY 4; PYY4; Y Neuropeptide
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NPY peptide (MBS9625804) is used for blocking the activity of NPY antibody (MBS9607088)
Molecular Weight	10,851 Da
OMIM	162640
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for NPY blocking peptide	Blocking/Control
Related Product Information for NPY blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of NPY blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NPY purchase	MBS9625804 is a blocking peptide targeting NPY.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPY. It may not necessarily be applicable to this product.

NCBI GI #	4505449
NCBI GeneID	4852
NCBI Accession #	NP_000896.1
UniProt Primary Accession #	P01303
UniProt Related Accession #	P01303
GenBank Nucleotide #	NM_000905.3

NCBI Official Full Name	pro-neuropeptide Y preproprotein
NCBI Official Synonym Full Names	neuropeptide Y
NCBI Official Symbol	NPY
NCBI Official Synonym Symbols	PYY4
UniProt Protein Name	Pro-neuropeptide Y
UniProt Synonym Protein Names	Neuropeptide tyrosine
Protein Family	Neuropeptide
UniProt Gene Name	NPY
UniProt Synonym Gene Names	NPY; CPON
UniProt Entry Name	NPY_HUMAN
NCBI Protein Information	pro-neuropeptide Y
NCBI Summary for NPY	This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]
UniProt Comments for NPY	NPY: NPY is implicated in the control of feeding and in secretion of gonadotrophin-release hormone. Belongs to the NPY family. Protein type: Hormone; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7p15.1 Cellular Component: Golgi apparatus; extracellular space; cell; extracellular region Molecular Function: G-protein coupled receptor activity; neuropeptide hormone activity; neuropeptide Y receptor binding; calcium channel regulator activity; receptor binding Biological Process: blood circulation; behavior; adult feeding behavior; synaptic transmission; cell proliferation; G-protein signaling, coupled to cyclic nucleotide second messenger; neuropeptide signaling pathway; regulation of blood pressure; calcium ion transport; positive regulation of appetite; regulation of appetite; digestion; feeding behavior; cerebral cortex development; cell motility; neurite development; central nervous system neuron development
Research Articles on NPY	**1.** NPY expression is increased during atherogenesis and in particular in unstable plaques
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