Recombinant Human NPY

Cat. No. NPY-29655TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Neuropeptide Y with a proprietary tag; predicted MWt 36.74 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	97 amino acids
Description	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.
Molecular Weight	36.740kDa inclusive of tags
Tissue specificity	One of the most abundant peptides in the nervous system. Also found in some chromaffin cells of the adrenal medulla.
Biological activity	useful for Antibody Production and Protein Array

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MLGNKRLGLSGLTLALSLLVCLGALAEAYPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRYGKRSSPETLISDLLMRESTENVPRTRLEDPAMW
Sequence Similarities	Belongs to the NPY family.

GENE INFORMATION

Gene Name	NPY neuropeptide Y [Homo sapiens]
Official Symbol	NPY
Synonyms	NPY; neuropeptide Y; pro-neuropeptide Y; PYY4;
Gene ID	4852
mRNA Refseq	NM_000905
Protein Refseq	NP_000896
MIM	162640
Uniprot ID	P01303

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Chromosome Location	7p15.3
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem;
Function	G-protein coupled receptor activity; G-protein coupled receptor binding; calcium channel regulator activity; neuropeptide Y receptor binding; neuropeptide hormone activity;

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