Active Recombinant Full Length Human NPY Protein

Cat. No. NPY-344HF **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	In Vitro Cell Free System
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.
Form	Liquid
Bio-activity	Useful for Antibody Production and Protein Array
Molecular Mass	36.740kDa inclusive of tags

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AA Sequence	MLGNKRLGLSGLTLALSLLVCLGALAEAYPSKPDNPGEDAPAEDMARYYSALRHYIN LITRQRYGKRSSPETLISDLLMRESTENVPRTRLEDPAMW
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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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