

Recombinant Full Length Human NPY Protein, GST-tagged

Cat. No. NPY-6654HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NPY full-length ORF (AAH29497, 1 a.a. - 97 a.a.) recombinant protein with GST-tag at N-terminal.
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. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]
Molecular Mass	36.41 kDa
AA Sequence	MLGNKRLGLSGLTLALSLLVCLGALAEAYPSKPDNPGEDAPAEDMARYYSALRHYYINLITRQRYGKRSSPETLISDLLMRESTENVPRTRLEDPAWW

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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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