PRODUCT INFORMATION

Target	NPY
Synonyms	PYY4
Description	Recombinant human NPY Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P01303
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	NPY(Tyr29-Trp97) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 34.2 kDa after removal of the signal peptide. The apparent molecular mass of NPY-hFc is approximately 35-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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]
Usage	Research use only
Conjugate	Unconjugated

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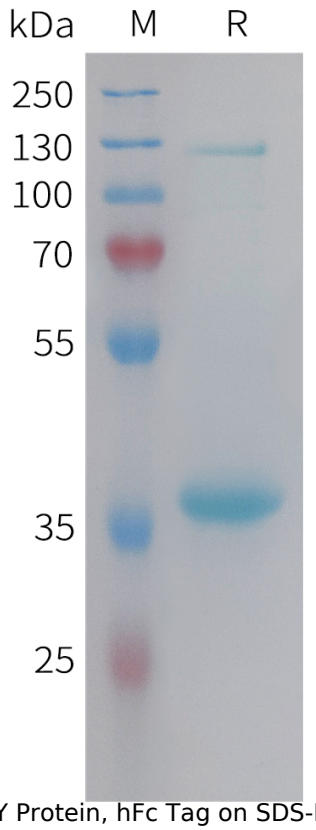


Figure 1. Human NPY Protein, hFc Tag on SDS-PAGE under reducing condition.

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