

HUMAN PYY PROTEIN, HFC TAG

Cat.#: 11800

Product Name: Human PYY Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: PYY-I;PYY1

Target: PYY

UNIPROT ID: P10082

Description: Recombinant Human PYY with N-terminal human Fc tag

Background: This gene encodes a member of the neuropeptide Y (NPY) family of peptides. The encoded preproprotein is proteolytically processed to generate two alternative peptide products that differ in length by three amino acids. These peptides, secreted by endocrine cells in the gut, exhibit different binding affinities for each of the neuropeptide Y receptors. Binding of the encoded peptides to these receptors mediates regulation of pancreatic secretion, gut mobility and energy homeostasis. Rare variations in this gene could increase susceptibility to obesity and elevated serum levels of the encoded peptides may be associated with anorexia nervosa. [provided by RefSeq, Feb 2016]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 30.5 kDa after removal of the signal peptide. The apparent molecular mass of hFc-PYY is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: hFc(Glu99-Ala330) PYY(Tyr29-Tyr64)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

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.

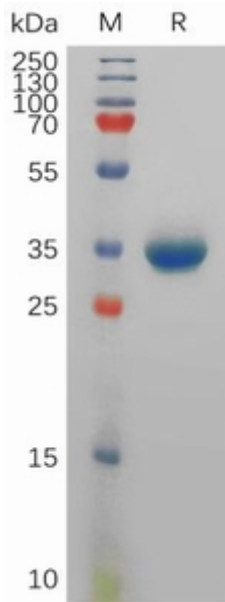


Figure 1. Human PYY Protein, hFc Tag on SDS-PAGE under reducing condition.