

**HUMAN GRP PROTEIN, HFC TAG****Cat.#:** 11449**Product Name:** Human GRP Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** BN;GRP-10;preproGRP;proGRP**Target:** GRP**UNIPROT ID:** P07492**Description:** Recombinant Human GRP with C-terminal human Fc tag

**Background:** This gene encodes a member of the bombesin-like family of gastrin-releasing peptides. The encoded preproprotein is proteolytically processed to generate two peptides, gastrin-releasing peptide and neuromedin-C. These peptides regulate numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation. These peptides are also likely to play a role in human cancers of the lung, colon, stomach, pancreas, breast, and prostate. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 29.0 kDa after removal of the signal peptide. The apparent molecular mass of GRP-hFc is approximately 25–35 kDa due to glycosylation.

**Molecular Characterization:** GRP(Val24–Met50) hFc(Glu99–Ala330)

**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.

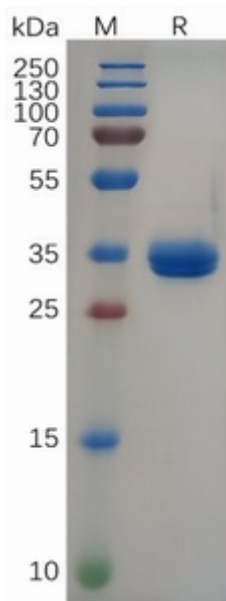


Figure 1. Human GRP Protein, hFc Tag on SDS-PAGE under reducing condition.