

## HUMAN GHR PROTEIN, HFC TAG

**Cat.#:** 11434

**Product Name:** Human GHR Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** GHBP;GHIP

**Target:** GHR

**UNIPROT ID:** P10912

**Description:** Recombinant Human GHR with C-terminal human Fc tag

**Background:** This gene encodes a member of the type I cytokine receptor family, which is a transmembrane receptor for growth hormone. Binding of growth hormone to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. Mutations in this gene have been associated with Laron syndrome, also known as the growth hormone insensitivity syndrome (GHIS), a disorder characterized by short stature. In humans and rabbits, but not rodents, growth hormone binding protein (GHBP) is generated by proteolytic cleavage of the extracellular ligand-binding domain from the mature growth hormone receptor protein. Multiple alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jun 2011]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 53.8 kDa after removal of the signal peptide. The apparent molecular mass of GHR-hFc is approximately 55-100 kDa due to glycosylation.

**Molecular Characterization:** GHR(Ala27-Thr264) 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.

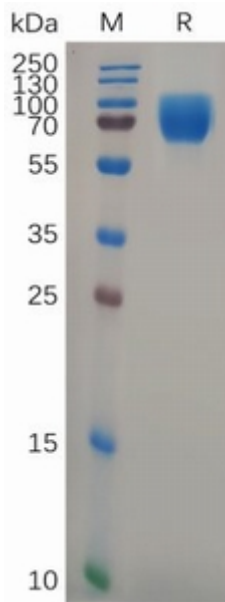


Figure 1. Human GHR Protein, hFc Tag on SDS-PAGE under reducing condition.