

HUMAN HGF PROTEIN, HFC TAG

Cat.#: 11762

Product Name: Human HGF Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: DFNB39;F-TCF;HGFB;HPTA;SF

Target: HGF

UNIPROT ID: P14210

Description: Recombinant Human HGF with C-terminal Human Fc tag

Background: This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss. [provided by RefSeq, Nov 2015]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 105.8 kDa after removal of the signal peptide. The apparent molecular mass of HGF-hFc is approximately 100–130 kDa due to glycosylation.

Molecular Characterization: HGF(Gln32-Ser728) 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.

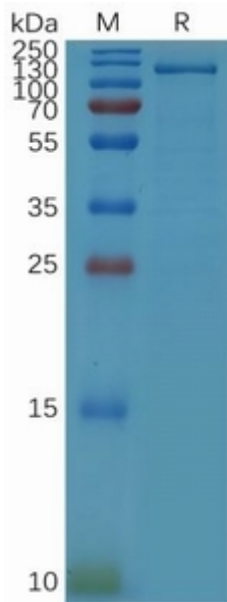


Figure 1. Human HGF Protein, hFc Tag on SDS-PAGE under reducing condition.