HUMAN IGF1 PROTEIN, HFC TAG

Cat.#: 11986

Product Name: Human IGF1 Protein

Size : 10 μg, 50 μg and 100 μg

Synonyms: IGF;MGF;IGFI;IGF-I

Target: IGF1

UNIPROT ID: P05019

Description: Recombinant Human IGF1 Protein with N-terminal human Fc tag

Background: The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 33.8 kDa after removal of the signal peptide. The apparent molecular mass of hFc-IGF1 is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: hFc(Glu99-Ala330) IGF1(Gly49-Ala118)

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.

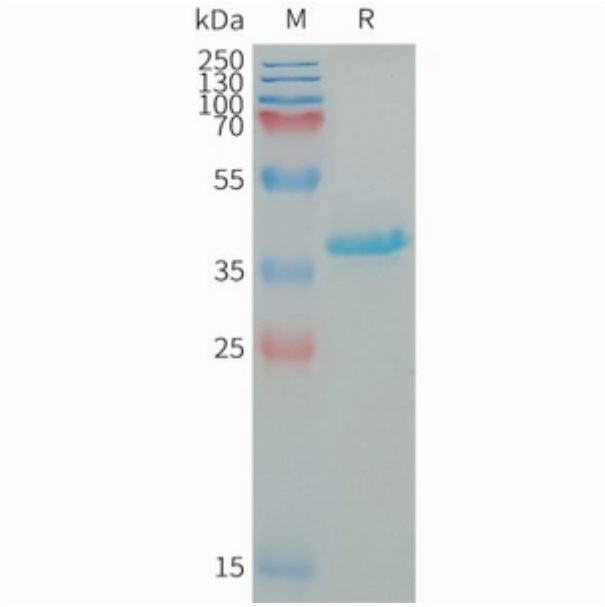

Figure 1.Human IGF1 Protein, hFc Tag on SDS-PAGE under reducing condition.