

HUMAN HBEGF PROTEIN, HFC TAG

Cat.#: 11482

Product Name: Human HBEGF Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: DTR;DTS;DTSF;HEGFL

Target: HBEGF

UNIPROT ID: Q99075

Description: Recombinant Human HBEGF with C-terminal human Fc tag

Background: Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor.[UniProtKB/Swiss-Prot Function]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 41.9 kDa after removal of the signal peptide. The apparent molecular mass of HBEGF-hFc is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: HBEGF(Leu20-Thr160) 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.

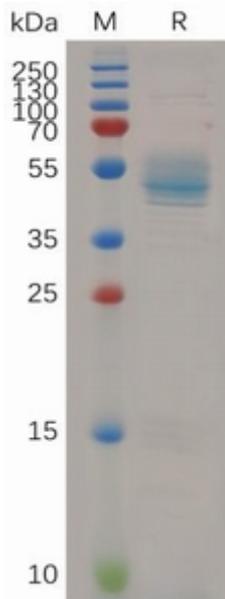


Figure 1. Human HBEGF Protein, hFc Tag on SDS-PAGE under reducing condition.