

HUMAN PROHB-EGF (C-6HIS) PROTEIN

Cat.#: 12058

Product Name: Human ProHB-EGF (C-6His) Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: Diphtheria toxin receptor;DTR;EGFL;heparin-binding EGF-like growth factor;DTS;DTSF;heparin-binding epidermal growth factor;proheparin-binding EGF-like growth factor;HB-EGF;pro HB-EGF

Target: proHB-EGF

UNIPROT ID: Q99075

Description: Recombinant Human Heparin Binding EGF like Growth Factor is produced by our Mammalian expression system and the target gene encoding Leu20-Leu148 is expressed with a 6His tag at the C-terminus.

Background: Heparin-binding EGF-like growth factor (HB-EGF) is a 12-16 kDa member of the epidermal growth factor (EGF) family. It possesses an EGF-like domain, and a heparin-binding motif. Mature HB-EGF is a soluble peptide that arises from proteolytic processing of the transmembrane form. Human HB-EGF shows 76% and 73% aa sequence identity with rat and mouse HB-EGF, respectively. It is required for normal cardiac valve formation and normal heart function, promotes smooth muscle cell proliferation. It may be involved in macrophage-mediated cellular proliferation; it is mitogenic for fibroblasts, but not endothelial cells. HB-EGF classified as a group 2 ErbB ligand based on its ability to activate both the EGF/ErbB1 and ErbB4 receptors. Activity associated with ErbB4 binding appears to be limited to non-mitogenic actions, while EGFR binding induces both mitogenic and non-mitogenic activity.

Species/Host: HEK293

Molecular Weight: 15.1 KDa

Molecular Characterization: Not available

Purity: Greater than 95% as determined by reducing SDS-PAGE.

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.

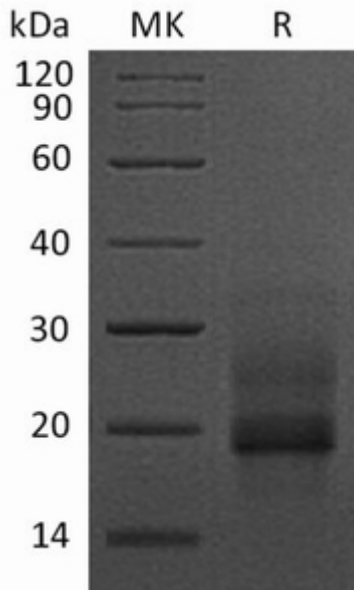


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.