



Synonym

HBEGF, HB-EGF, Heparin-binding EGF-like growth factor, Diphtheria toxin receptor, DT-R, DTR, DTS, HEGFL

Source

Human HBEGF, His Tag(HBF-H52H3) is expressed from human 293 cells (HEK293). It contains AA Asp 63 - Leu 148 (Accession # [Q99075-1](#)).

Molecular Characterization

HBEGF(Asp 63 - Leu 148)
Q99075-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 11.8 kDa. The protein migrates as 16-23 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

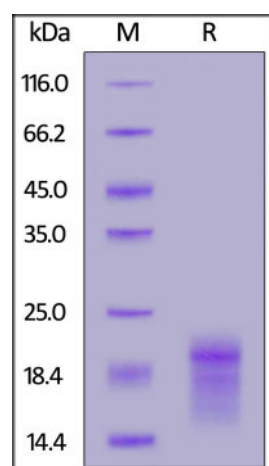
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

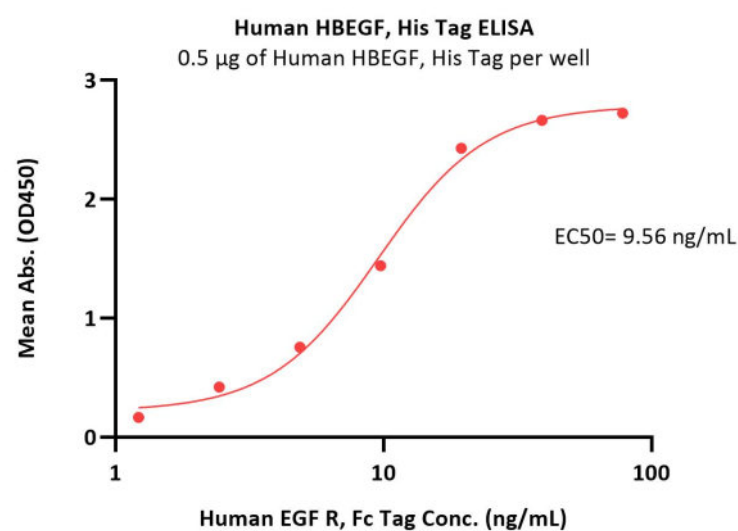


Human HBEGF, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

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Immobilized Human HBEGF, His Tag (Cat. No. HBF-H52H3) at 5 µg/mL (100 µL/well) can bind Human EGF R, Fc Tag (Cat. No. EGR-H5252) with a linear range of 1-20 ng/mL (QC tested).

Background

Heparin-binding epidermal growth factor (EGF)-like growth factor (HBEGF) is a ligand for the EGF receptor (EGFR) and a critical molecular component to a number of normal physiological processes including but not limited to tissue injury and wound healing, reproduction, angiogenesis and recently, adipogenesis. Misexpression of HB-EGF is linked to tumor formation and cancer including hepatocellular, pancreatic, gastric, breast, colon and melanoma, gliomas and glioblastomas.

Clinical and Translational Updates

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