Recombinant Human HB-EGF Protein

Catalog No.: RP00754

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Sequence Information

Species
Human

Gene ID
1839

Swiss Prot
Q99075

Tags
C-His

Synonyms
DTR, DTS, DTSF, HEGFL,HBEGF, DTS,DTSF,HEGFL;HB-EGF

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
15.11 kDa

Observed MW
15-25 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 thatarises from proteolytic processing of the transmembrane form. Human HB -EGF shows 76% and 73% aasequence identity with rat and mouse HB-EGF, respectively. It is required for normal cardiac valve formationand 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 agroup 2 ErbB ligand based on its ability to activate both the EGF/ErbB1 and ErbB4 receptors. Activityassociated with ErbB4 binding appears to be limited to non - mitogenic actions, while EGFR binding inducesboth mitogenic and non-mitogenic activity.

Basic Information

Description
Recombinant Human HB-EGF Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Leu20-Leu148) of human HB-EGF (Accession #Q99075) fused with a 6×His tag at the C-terminus.

Activity
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 0.15-0.60 ng/mL, corresponding to a specific activity of 1.67×10^{6}~6.67×10^{6} units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

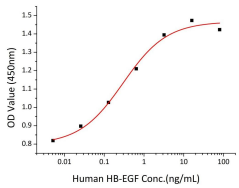
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

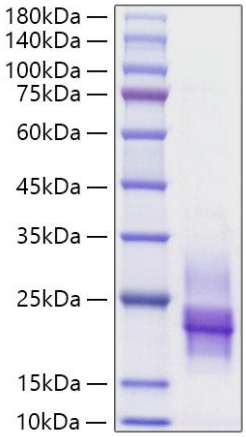
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 0.15-0.60 ng/mL, corresponding to a specific activity of 1.67×10^6~6.67×10^6 units/mg.



Recombinant Human HB-EGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.