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## Datasheet for ABIN7534580 HBEGF Protein (His tag)

### Overview

Quantity:	100 µg
Target:	HBEGF
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HBEGF protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human HB-EGF Protein
Sequence:	LVTGESLERL RRGLAAGTSN PDPPTVSTDQ LLPLGGGRDR KVRDLQEADL DLLRVTLSSK PQALATPNKE EHGKRKKKGGK GLGKKRDPCL RKYKDFCIHG ECKYVKELRA PSCICHPGYH GERCHGLSL
Specificity:	Leu20-Leu148
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	< 1 EU/µg of the protein by LAL method.

### Target Details

Target:	HBEGF
Alternative Name:	HB-EGF ( <a href="#">HBEGF Products</a> )

## Target Details

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**Background:** Description: 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 % amino acid 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 is 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.

Name: DTR, DTS, DTSF, HEGFL, HBEGF, DTS, DTSF, HEGFL

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Gene ID: 1839

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UniProt: [Q99075](#)

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Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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 stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

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Concentration: 0.42 mg/mL

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Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

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Storage: -20 °C, -80 °C

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Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.  
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.