

[Go to Product page](#)

Datasheet for ABIN7520057 HBEGF Protein (His tag)

Overview

Quantity:	20 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 DLLRVTLSK PQALATPNKE EHGKRKKKGK 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 (HBEGF Products)

Target Details

Background:	<p>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.</p> <p>Name: DTR, DTS, DTSF, HEGFL, HBEGF, DTS, DTSF, HEGFL</p>
Gene ID:	1839
UniProt:	Q99075
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

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.
Concentration:	0.42 mg/mL
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	<p>Store the lyophilized protein at -20 °C to -80 °C for long term.</p> <p>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.</p>