

Active Recombinant Human HBEGF Protein

Cat. No. HBEGF-269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBEGF Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Proheparin-binding EGF-like growth factor (HB-EGF), also known as DTR, DTS and HEGFL, is a member of the EGF family of mitogens. It is expressed in macrophages, monocytes, endothelial cells and muscle cells. HB-EGF signals through the EGF receptor to stimulate the proliferation of smooth muscle cells, epithelial cells and keratinocytes. Compared to EGF, HB-EGF binds the EGF receptor with higher affinity and is thus more mitogenic, probably due to its ability to bind to heparin and heparin sulfate proteoglycans. HB-EGF has been reported to act as a diphtheria toxin receptor, mediating endocytosis of the bound toxin.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.5 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Molecular Mass	12-14 kDa, observed by reducing SDS-PAGE.
AA Sequence	DLQEADLDLLRVTLSKPQALATPNKEEHGKRKKKGKGLGKKRDPCLRKYKDFCIH GECKYVKELRAPSCICHPGYHGERCHGLSL
Endotoxin	< 0.2 EU/μg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human HB-EGF remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human HB-EGF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	HBEGF heparin-binding EGF-like growth factor [Homo sapiens]
Official Symbol	HBEGF
Synonyms	HBEGF; heparin-binding EGF-like growth factor; diphtheria toxin receptor (heparin binding epidermal growth factor like growth factor), DTR, DTS, HEGFL; proheparin-binding EGF-like growth factor; Diphtheria toxin receptor (heparin binding EGF like growth factor); heparin binding epidermal growth factor; heparin-binding epidermal growth factor; diphtheria toxin receptor (heparin-binding EGF-like growth factor); diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor); DTR; DTS; DTSF; HEGFL;
Gene ID	1839
mRNA Refseq	NM_001945
Protein Refseq	NP_001936
MIM	126150

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UniProt ID

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