

Active Recombinant Human HBEGF Protein

Cat. No. HBEGF-056H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human HB-EGF protein containing 46aa (D63-L148) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	63-148 a.a.
Description	Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor.
Bio-activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.15-0.75 ng/mL
Molecular Mass	9.7 kDa
Product-Related Proteins	63-148
Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	HBEGF heparin binding EGF like growth factor [Homo sapiens (human)]
Official Symbol	HBEGF
Synonyms	HBEGF; heparin binding EGF like growth factor; DTR; DTS; DTSF; HEGFL; proheparin-binding EGF-like growth factor; Names; diphtheria toxin receptor (heparin-binding EGF-like growth factor); diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor); heparin-binding epidermal growth factor
Gene ID	1839
mRNA Refseq	NM_001945
Protein Refseq	NP_001936
MIM	126150
UniProt ID	Q99075

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