Recombinant Human heparin-binding EGF-like growth factor, His-tagged

Cat. No. HBEGF-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HBEGF, 63-148aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	63-148 a.a.
Description	HBEGF is growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. It is required for normal cardiac valve formation and normal heart function. This protein promotes smooth muscle cell proliferation. It 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. Recombinant human HBEGF protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT
Molecular Mass	12.1kDa (109aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSDLQEADL DLLRVTLSSK PQALATPNKE EHGKRKKKGK GLGKKRDPCL RKYKDFCIHG ECKYVKELRA PSCICHPGYH

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	GERCHGLSL
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

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	Q99075
Chromosome Location	5q23
Pathway	Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; ErbB4 signaling events, organism-specific biosystem;
Function	epidermal growth factor receptor binding; eukaryotic cell surface binding; growth factor activity; heparin binding; receptor activity;

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