

Recombinant Human Heparin-Binding EGF-Like Growth Factor

Cat. No. HBEGF-339H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	Sf21 Cells
Description	Heparin-binding EGF-like growth factor (HB-EGF) is a monomeric heparin binding O-glycosylated protein and a member of the EGF family of proteins. It has been shown to play a role in wound healing, cardiac hypertrophy and heart development and function. HB-EGF contributes to cell adhesion, invasion, and angiogenesis, which are integral to transcoelomic metastasis in ovarian cancer.
Molecular Weight	The predicted molecular weight of Recombinant Human HB-EGF is 9.5 kDa. However, this recombinant protein is heterogenously O-glycosylated and the actual molecular weight as observed by migration on SDS Page is 12 kDa.
Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives present.
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.

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Biological Activity

The biological activity of Human HB-EGF was determined by its ability to stimulate proliferation in a mouse fibroblast cell line, Balb/3T3. The expected ED50 for this effect is typically 0.15 - 0.75 ng/mL. The cell number is assessed in a fluorometric assay using the redox sensitive dye, Resazurin.

Storage

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name HBEGF heparin-binding EGF-like growth factor [Homo sapiens]

Synonyms

HBEGF; heparin-binding EGF-like growth factor; DTR; DTS; DTSF; HEGFL; 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

Chromosome Location 5q23

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Pathway

Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; GnRH signaling pathway

Function

epidermal growth factor receptor binding; growth factor activity; heparin binding; receptor activity

**PDB rendering based
on 1xdt.**



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