

## 32-12108: Human Heparin Binding EGF-like Growth Factor (AF)

**Gene :** HBEGF  
**Gene ID :** 1839  
**Uniprot ID :** Q99075  
**Alternative Name :** DTR, DTS, HEGFL, Diphtheria toxin receptor

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 9.9 kDa (87 aa)

Heparin-binding EGF-like growth factor (HB-EGF) is a member of the epidermal growth factor (EGF) family and is expressed by monocytes and macrophages. HB-EGF is the predominant growth factor involved in epithelialization during wound healing. HB-EGF signals through the receptor tyrosine kinase ErbB2 to maintain adult heart homeostasis, and promotes cardiac valve development through binding in high affinity to the epidermal growth factor receptor (EGFR). HB-EGF binds the the ErbB4 receptor tyrosine kinase to mediate implantation of the human blastocyst. HB-EGF also functions as a potent mitogen for fibroblasts and smooth muscle cells.

### Product Info

**Amount :** 50 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MDLQEADLDLÅ LRVTLSKPKQÅ ALATPNKEEHÅ GKRKKKGKGLÅ GKRDPCLRKÅ YKDFCIHGECÅ KYVK ELRAPSÅ CICHPGYHGERCHGLSL

### Application Note

**Endotoxin:** Less than  $0.1 \text{ ng}/\mu\text{g}$  (1 IEU/ $\mu\text{g}$ ) as determined by LAL test.

Biological Activity was determined by 3T3 cell proliferation at  $\leq 1 \text{ ng/mL}$ ;  $\geq 1.0 \times 10^6 \text{ units/mg}$ . Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



