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HBEGF
Recombinant Human HB-EGF

Catalog No.	CRH309A	**Quantity:**	10 µg
	CRH309B		100 µg
	CRH309C		1 mg

Alternate Names: Heparin-binding EGF-like growth factor, HB-EGF, HBEGF, Diphtheria toxin receptor, DT-R

Description: 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.

UniProt ID: Q99075

Gene ID: 1839

Source: *E. coli*

Molecular Weight: Monomer, 9.9 kDa (87 aa)

Formulation: Lyophilized from sterile-filtered 10 mM sodium phosphate, pH 7.5

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: ED_{50} ≤ 1.0 ng/ml, determined by dose-dependent proliferation of 3T3 cells

Specific Activity: ≥ 1.0×10^6 U/mg

Amino Acid Sequence: MDLQEADLDL LRVTLSSKPQ ALATPNKEEH GKRKKKGKGL GKKRDPCLRK YKDFCIHGEC KYVKELRAPS CICHPGYHGERCHGLSL

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipet the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for reconstitution.

Storage & Stability: Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. **Avoid repeated freeze-thaw cycles.**

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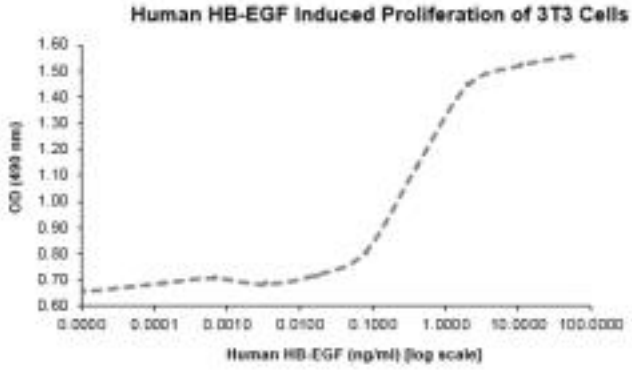

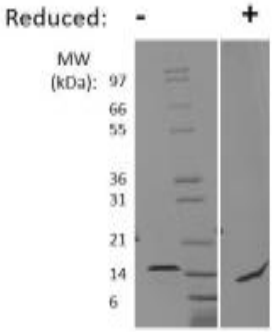

Human HB-EGF Gel
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human HB-EGF has a predicted MW of 9.9 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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