Hbegf
Recombinant Mouse Heparin-Binding EGF-like Growth Factor

Catalog No.	CS493A	**Quantity:**	10 µg
	CS493B		50 µg
	CS493C		1 mg

Alternate Names: Dtr, Dts, Hegfl, diphtheria toxin receptor; heparin binding epidermal growth factor-like growth factor; proheparin-binding EGF-like growth factor

Description: Heparin-binding EGF-like growth factor (HB-EGF) is a member of the EGF family of proteins. HB-EGF-like growth factor is synthesized as a membrane-anchored mitogenic and chemotactic glycoprotein. An epidermal growth factor produced by monocytes and macrophages, due to an affinity for heparin is termed HB-EGF. It has been shown to play a role in wound healing, cardiac hypertrophy and heart development and function. The transmembrane form of HB-EGF is the unique receptor for diptheria toxin and functions in juxtacrine signaling in cells. Both forms of HB-EGF participate in normal physiological processes and in pathological processes including tumor progression and metastasis, organ hyperplasia, and atherosclerotic disease. HB-EGF can bind two locations on cell surfaces, heparan sulfate proteoglycans and EGF-receptor effecting cell to cell interactions.
Recombinat Mouse Heparin-Binding EGF-like Growth Factor is a single non-glycosylated polypeptide chain containing 86 amino acids.

Gene ID: 15200

Source: *E. coli*

Molecular Weight: 9.8 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB + 500 mM NaCl, pH 7.4.

Purity: >97% by SDS-PAGE and HPLC analyses.

Endotoxin Level: <1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a cell proliferation assay using mouse BALB/c 3T3 cells is less than 1 ng/ml.

Specific Activity: >1.0 x 10^6 IU/mg.

Amino Acid Sequence: DLEGTDLNLF KVAFSSKPQG LATPSKERNG KKKKKGKGLG KKRDPCLRKY KDYCIHGECR YLQEFRTPSC KCLPGYHGHR CHGLTL

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-8°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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