



Overview

Heparin Binding EGF-like growth factor, HBEGF, Diphtheria toxin receptor, DTR **Synonyms**

> 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 **Description** 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.

Species Mouse Source E. coli

Fully biologically active when compared to standard. The ED₅₀ as determined by a cell

Biological Activity proliferation assay using murine Balb/c 3T3 cells is less than 1 ng/ml, corresponding to a

specific activity of > 1.0 × 10⁶ IU/mg.

DLEGTDLNLF KVAFSSKPQG LATPSKERNG KKKKKGKGLG Sequence

KKRDPCLRKY KDYCIHGECR YLQEFRTPSC KCLPGYHGHR CHGLTL

Properties

Measured Molecular Approximately 9.8 kDa, a single non-glycosylated polypeptide chain containing 86 amino

Weight acids.

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

Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM PB, 500 mM NaCl, **Formulation**

pH7.4.

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working

Reconstitution aliquots and stored at d -20 °C. Further dilutions should be made in appropriate buffered

solutions.

Endotoxin Level Less than 1 EU/µg of rMuHB-EGF as determined by LAL method.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term

storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one Storage week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working

aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

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