



Proheparin-Binding EGF-like Growth Factor, mouse recombinant (rmHB-EGF)

Catalog No:	97561
Lot No:	XXXXX
Source:	E. coli
Synonyms:	Heparin-binding EGF-like growth factor, DTR, HEGFL, diphtheria toxin receptor (heparin-binding epidermal
	growth factor-like growth factor), DTSF, proheparin-binding epidermal growth factor-like growth factor

Background

HB-EGF is an EGF related growth factor which signals via the EGF receptor, and stimulates the proliferation of SMC (smooth muscle cells), fibroblasts, epithelial cells and keratinocytes. HB-EGF is expressed in various cell types and tissues, including vascular endothelial cells and SMC, macrophages, skeletal muscle, keratinocytes and particular tumor cells. HB-EGF's ability to explicitly bind heparin and heparin sulfate proteoglycans is dissimilar from other EGF-like molecules, and might be related to the enhanced mitogenic activity, relative to EGF, that HB-EGF exerts on smooth muscle cells.

Description

HB-EGF mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 86 amino acids (63-148) and having a molecular mass of 9.8 kDa. HB-EGF is purified by proprietary chromatographic techniques

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) solution containing 1xPBS pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized HB-EGF in sterile 18 M Ω -cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Mouse HB-EGF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HB-EGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

DLEGTDLNLF KVAFSSKPQG LATPSKERNG KKKKKGKGLG KKRDPCLRKY KDYCIHGECR YLQEFRTPSC KCLPGYHGHR CHGLTL

Activity

The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is <1.0 ng/ml, corresponding to a specific activity of >1.0 \times 10⁶ units/mg.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51





Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51