

Proheparin-Binding EGF-like Growth Factor Mouse Recombinant

Item Number	rAP-2166
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.
Description	HB-EGF Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 86 amino acids (63-148 a.a.) and having a molecular mass of 9.8 kDa. The HB-EGF is purified by proprietary chromatographic techniques
Uniprot Accession Number	Q06186
Amino Acid Sequence	DLEGTDLNLF KVAFSSKPQG LATPSKERNG KKKKKGKGLG KKRDPCLRKY KDYCIHGECR YLQEFRTSPSC KCLPGYHGHR CHGLTL.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Mouse HB-EGF Recombinant 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.
Formulation and Purity	The protein was filtered (0.2µm) and lyophilized from a concentrated solution containing 10mM PB and 500mM NaCl, pH7.4. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Mouse HB-EGF in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is $\geq 1.0 \text{ ng/ml}$, corresponding to a specific activity of $\geq 1.0 \times 10^6 \text{ units/mg}$.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**