# Recombinant Mouse HBEGF

Catalog # FL020

## Product Specifications

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| Appearance | Sterile filtered White lyophilized (freeze-dried) powder. |
| Purity | > 97% by SDS-PAGE or HPLC. |
| Endotoxin | < 0.01 EU/μg of rMuHB-EGF protein as determined by LAL method. |
| Expression System | Expressed in E. coli. |
| Species | Mouse |
| Tag | Tag free. |
| Activity | Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using mouse Balb/c 3 T3 cells is less than 1 ng/ml, corresponding to a specific activity of ≥ 1.0×10^6 U/mg. |
| Formulation | Lyophilized from a 0.2 μm filtered concentrated solution in 10 mM PB, with 500 mM NaCl, pH 7.4. |
| Reconstitution | Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a 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 aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions. |
| Accession # | Q06186 Asp63-Leu148 |
| Amino acid sequence | DLEGTDLNLFKVAFSSKPQGLATPSKERNGKKKKKGKGLGKKRDPCLRKYKDYCIHGECRYLQEFRTPSCKCLPGYHGHRC HGLTL |
| Molecular weight | Approximately 9.8 kDa, a single non-glycosylated polypeptide chain containing 86 amino acids. |
| Synonyms | HBEGF, DT-R |
| Stability & Storage | Shipped on wet ice. For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles afte r reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reco nstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution. |
| Precautions | Recombinant Mouse HBEGF is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

Heparin-binding epidermal growth factor (HB-EGF) -like growth factor (EGF) is found in cerebral neurons. Its expression is in creased after hypoxic or ischemic injury, which also stimulates neurogenesis. HB-EGF has been implicated as a participant in a variety of normal physiological processes such as blastocyst implantation, wound healing, and in pathological processes such as tumor growth, SMC hyperplasia and atherosclerosis. HB-EGF is an 87 amino acid mitogenic and chemotactic glycoprotein cont aining an EGF-like domain with six conserved cysteine residues. Mouse HB-EGF shares about 73% a.a. sequence identity with human HB-EGF. Recombinant Mouse HB-EGF is a 9.8kDa protein containing 86 amino acid residues.

## Validation Images