ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

Rat HB-EGF

Synonyms: Proheparin-binding EGF-like growth factor, Heparin-binding EGF-like growth factor, HB-EGF, HBEGF, Dtr, Hegfl, GFHB.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	1465.970.010		
50 µg	1465.970.050		
1 mg	1465.970.199		

Please enquire for bulk quantities and other vial sizes

Description

HB-EGF Rat Recombinant produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 86 amino acids and having a molecular mass of 9.7kDa.

- **Biological Activity** $\geq 1 \times 10^6$ units/mg
- **Source**   *E. Coli*
- **Purity** $\geq 95 \%$ (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer**   The protein was filtered (0.2µm) and lyophilized from a concentrated solution containing PBS, 300mM NaCl, pH 7.4 and 5% trehalose*
- **Physical state**   Sterile filtered, lyophilized

Biological Activity

The ED_{50} as determined by a cell proliferation assay using balb/c 3T3 cells is < 1.0 ng/ml, corresponding to a specific activity of > 1.0×106 units/mg.

Reconstitution

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

Stability

Lyophilized Rat 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 avoid repeated freeze-thaw cycles**.

Amino Acid Sequence

DLEGTDLDLF KVAFSSKPQA LATPGKEKNG KKKRKGKGLG KKRDPCLKKY KDYCIHGECR YLKELRIPSC
HCLPGYHGQR CHGLTL

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*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.