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32-1216: rHB-EGF Recombinant Protein

Alternative Name : Proheparin-binding EGF-like growth factor, Heparin-binding EGF-like growth factor, HB-EGF, Dtr., Hegfl, GFHB.

Description

Source: Escherichia Coli. 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.The HB-EGF is purified by proprietary chromatographic techniques. 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.

Product Info

Amount: $50 \mu g$

Purification : Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. **Content :** The protein was lyophilized from a concentrated (1mg/ml) solution containing 1xPBS pH-7.4.

Lyophilized Rat HB-EGF Recombinant although stable at room temperature for 3 weeks, should

Storage condition :be stored desiccated below -18°C. Upon reconstitution HB-EGF should be stored at 4°C between 2.7 days and for future use helper 12°C. For large terms of the recommended to add a

2-7 days and for future use below $-18\,^{\circ}\text{C.For}$ long term storage it is recommended to add a

carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Amino Acid: DLEGTDLDLF KVAFSSKPQA LATPGKEKNG KKKRKGKGLG KKRDPCLKKY KDYCIHGECR YLKELRIPSC

HCLPGYHGOR CHGLTL.

Application Note

It is recommended to reconstitute the lyophilized Rat HB-EGF in sterile 18M-cm H2O not less than 100 $\tilde{A} \square \hat{A} \mu g/ml$, which can then be further diluted to other aqueous solutions. The ED50 as determined by a cell proliferation assay using balb/c 3T3 cells is < 1.0 ng/ml, corresponding to a specific activity of > $1.0\tilde{A} \square \hat{A} \square \hat{A} \square \hat{A} \square \hat{A}$

