

Proheparin-Binding EGF-like Growth Factor Rat Recombinant

Item Number	rAP-2170
Synonyms	Proheparin-binding EGF-like growth factor, Heparin-binding EGF-like growth factor, HB-EGF, HBEGF, Dtr, Hegfl, GFHB.
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. The HB-EGF is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q06175
Amino Acid Sequence	DLEGTDLDF KVAFSSKPQA LATPGKEKNG KKKRKGKGLG KKRDPCLKKY KDYCIHGECR YLKEL-RIPSC HCLPGYHGQR CHGLTL.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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 prevent freeze-thaw cycles.
Formulation and Purity	The protein was lyophilized from a concentrated (1mg/ml) solution containing 1xPBS pH-7.4. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	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.
Biological Activity	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 > 1.0×10 ⁶ 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**