

# Growth Factor Data Sheet

**GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!**

Heparin-binding epidermal growth factor-like growth factor (HBEGF) is synthesized as a transmembrane precursor that is cleaved by a protease to release HBEGF as the ectodomain. Its expression stimulates neurogenesis and is increased after the brain experiences cerebral hypoxia. HBEGF is known to participate in a variety of normal physiological processes such as blastocyst implantation and wound healing, as well as in pathological processes such as tumor growth, SMC hyperplasia and atherosclerosis. HBEGF is a glycoprotein exhibiting mitogenic and chemotactic activity in smooth muscle cells and fibroblasts.

Catalog Number	<b>1550-08</b>
Product Name	<b>HBEGF, Rat</b> Recombinant Rat Heparin-binding EGF-like Growth Factor Heparin-binding EGF HEGFL Diphtheria Toxin Receptor (DTR)
Source	<i>Escherichia coli</i>
MW	~9.7 kDa (86 amino acids)
Sequence	DLEGTDLDLF KVAFFSKPQA LATPGKEKNG KKKRKKGKGLG KKRDPCLKKY KDYCIHGECR YLKELRIPSC HCLPGYHGQR CHGLTL
Accession Number	<a href="#">Q06175</a>
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 1 ng/ml, corresponding to a specific activity of >1.0 × 10 <sup>6</sup> IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.