

# Growth Factor Data Sheet

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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.

<b>Catalog Number</b>	<b>1150-14</b>
<b>Product Name</b>	<b>HBEGF, Human</b> Recombinant Human Heparin-binding EGF-like Growth Factor Heparin-binding EGF HEGFL Diphtheria Toxin Receptor (DTR)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~9.7 kDa (86 amino acids)
<b>Sequence</b>	DLQEADLDLL RVTLSKPKQA LATPNKEEHG KRKKKGKGLG KKRDPCLRKY KDFCIHGECK YVKELRAPSC ICHPGYHGER CHGLSL
<b>Gene ID</b>	<a href="#">Q99075</a>
<b>Purity</b>	97% by SDS and HPLC analyses
<b>Biological Activity</b>	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.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.