Product Name: Recombinant Human proHB-EGF (C-6His)
Catalog #: PHH0786

Summary

Name	proHB-EGF/Heparin Binding EGF like Growth Factor
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Heparin Binding EGF like Growth Factor is produced by our Mammalian expression system and the target gene encoding Leu20-Leu148 is expressed with a 6His tag at the C-terminus.
Accession #	Q99075
Host	Human Cells
Species	Human
Predicted Molecular Mass	15.1 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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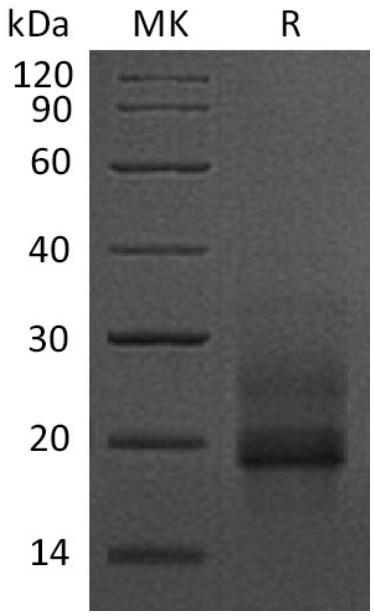

Alternative Names

Diphtheria toxin receptor; DTR;HEGFL; heparin-binding EGF-like growth factor; DTS; DTSF; heparin-binding epidermal growth factor; proheparin-binding EGF-like growth factor; HB-EGF; pro HB-EGF

Background

Heparin-binding EGF-like growth factor (HB-EGF) is a 12/xad16 kDa member of the epidermal growth factor (EGF) family. It possesses an EGF/xadlike domain, and a heparin-binding motif. Mature HB/xadEGF is a soluble peptide that arises from proteolytic processing of the transmembrane form. Human HB/xadEGF shows 76% and 73% aa sequence identity with rat and mouse HB/xadEGF, respectively. It is required for normal cardiac valve formation and normal heart function, promotes smooth muscle cell proliferation. It may be involved in macrophage-mediated cellular proliferation; it is mitogenic for fibroblasts, but not endothelial cells. HB/xadEGF classified as a group 2 ErbB ligand based on its ability to activate both the EGF/ErbB1 and ErbB4 receptors. Activity associated with ErbB4 binding appears to be limited to non/xadmitogenic actions, while EGFR binding induces both mitogenic and non/xadmitogenic activity.

Note

For Research Use Only , Not for Diagnostic Use.