
Recombinant Human Heparin Binding EGF like Growth Factor/proHB-EGF Protein(C-6His)**Cat.NO.: TP04637**

3th Edition

Synonyms: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

Description:Heparin-binding EGF-like growth factor (HB-EGF) is a 12-16 kDa member of the epidermal growth factor (EGF) family. It possesses an EGF-like domain, and a heparin-binding motif. Mature HB-EGF is a soluble peptide that arises from proteolytic processing of the transmembrane form. Human HB-EGF shows 76% and 73% aa sequence identity with rat and mouse HB-EGF, 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-EGF 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-mitogenic actions, while EGFR binding induces both mitogenic and non-mitogenic activity.

Form:PBS

Molecular Weight:15.1 kDa

Sequences:Leu20-Leu148

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.