

Product datasheet for **TP727661**

HB EGF (HBEGF) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Heparin Binding EGF like Growth Factor/proHB-EGF(C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Leu20-Leu148
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	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.
Stability:	12 months from date of despatch
Locus ID:	1839
UniProt ID:	Q99075
Summary:	Heparin-binding EGF-like growth factor (HB-EGF) is a 12 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.



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