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HB-EGF, human recombinant protein

Proheparin-binding EGF-like growth factor, HBEGF, DTR, DTS, HEGFL, HB-EGF, Heparin-binding EGF-like

Catalog # PBV10200r

Specification

HB-EGF, human recombinant protein - Product info

Primary Accession	Q99075
Calculated MW	**9.7 kDa KDa**

HB-EGF, human recombinant protein - Additional Info

Gene ID	**1839**
Gene Symbol	**HBEGF**

Other Names
Proheparin-binding EGF-like growth factor, HBEGF, DTR, DTS, HEGFL, HB-EGF, Heparin-binding EGF-like growth factor, Diphtheria toxin receptor, DT-R, DTSF.

Gene Source	**Human**
Source	**E. coli**
Assay&Purity	**SDS-PAGE; ≥97%**
Assay2&Purity2	**HPLC; ≥97%**
Recombinant	**Yes**
Results	**> 1.0×106 units/mg.**
Sequence	**DLQEADLDLL RVTLSSKPQA LATPNKEEHG KRKKKGKGLG KKRDPCLRKY KDFCIHGECK YVKELRAPSC ICHPGYHGER CHGLSL.**

Target/Specificity
HB-EGF

Application Notes
It is recommended to reconstitute the lyophilized Human HB-EGF in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Format
Lyophilized protein

Storage
-20°C; Lyophilized with no additives

HB-EGF, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HB-EGF, human recombinant protein - Images

HB-EGF, human recombinant protein - Background

HB-EGF is an EGF related growth factor which signals via the EGF receptor, and stimulates the proliferation of SMC (smooth muscle cells), fibroblasts, epithelial cells and keratinocytes. HB-EGF is expressed in various cell types and tissues, including vascular endothelial cells and SMC, macrophages, skeletal muscle, keratinocytes and particular tumor cells. HB-EGF's ability to explicitly bind heparin and heparin sulfate proteoglycans is dissimilar from other EGF-like molecules, and might be related to the enhanced mitogenic activity, relative to EGF, that HB-EGF exerts on smooth muscle cells.

HB-EGF, human recombinant protein - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Higashiyama S.,et al.J. Biol. Chem. 267:6205-6212(1992).