

## HB-EGF Protein, Mouse

<b>Cat. No.:</b>	HY-P7194
<b>Synonyms:</b>	rMuHB-EGF; Proheparin-binding EGF-like growth factor; HBEGF; DTR
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	Q06186 (D63-L148)
<b>Gene ID:</b>	15200
<b>Molecular Weight:</b>	Approximately 9.8 kDa

### PROPERTIES

<b>AA Sequence</b>	D L E G T D L N L F    K V A F S S K P Q G    L A T P S K E R N G    K K K K K G K G L G K K R D P C L R K Y    K D Y C I H G E C R    Y L Q E F R T P S C    K C L P G Y H G H R C H G L T L
<b>Biological Activity</b>	The ED <sub>50</sub> is <1 ng/mL as measured by murine Balb/c 3T3 cells, corresponding to a specific activity of >1.0 × 10 <sup>6</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against 10 mM PB, 500 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in sterile distilled water or aqueous buffer containing 0.1% BSA.
<b>Storage &amp; Stability</b>	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Heparin-binding epidermal growth factor-like growth factor (HBEGF) is a heparin-binding member of the EGF family. It is a potent mitogen and chemotactic factor for fibroblasts and smooth muscle cells. As with other EGF family members, HB-EGF binds and activates EGF receptors 1 and 4. HB-EGF has been shown to stimulate the growth of a variety of cells in an autocrine or paracrine manner and to be involved in stromal proliferation. HB-EGF is also a potent inducer of tumor growth and angiogenesis <sup>[1]</sup> .
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## REFERENCES

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[1]. Ongusaha PP, et al. HB-EGF is a potent inducer of tumor growth and angiogenesis. Cancer Res. 2004 Aug 1;64(15):5283-90.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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