

HB-EGF Protein, Human

Cat. No.:	HY-P7017
Synonyms:	rHuHB-EGF; HBEGF; Diphtheria toxin receptor; DTR
Species:	Human
Source:	E. coli
Accession:	Q99075 (D63-L148)
Gene ID:	1839
Molecular Weight:	9-14 kDa

PROPERTIES

AA Sequence	DLQEADLDLL RVTLS SKPQA LATPNKEEHG KRKKKGKGLG KKRDPCLRKY KDFCIHGEEK YVKELRAPSC ICHPGYHGER CHGLSL
Biological Activity	The ED ₅₀ is <0.75 ng/mL as measured by 3T3 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<1.0 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Heparin-binding EGF-like Growth Factor (HB-EGF) belongs to the EGF superfamily of peptide growth and differentiation factors. HB-EGF activates two EGF receptor subtypes, HER1 and HER4 and binds to cell surface HSPG. The transmembrane form of HB-EGF is a juxtacrine growth and adhesion factor and is uniquely the receptor for diphtheria toxin. HB-EGF gene expression is highly regulated, for example by cytokines, growth factors, and transcription factors such as MyoD. HB-EGF has been implicated as a participant in a variety of normal physiological processes such as blastocyst implantation and wound healing, and in pathological processes such as tumor growth, SMC hyperplasia and atherosclerosis^[1].</p>
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REFERENCES

[1]. Raab G, et al. Heparin-binding EGF-like growth factor. *Biochim Biophys Acta*. 1997 Dec 9;1333(3):F179-99.

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

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