

HB-EGF Protein, Human (sf9)

Cat. No.:	HY-P73093
Synonyms:	Proheparin-binding EGF-like Growth Factor; DTR; DTS; HEGFL; HBEGF
Species:	Human
Source:	Sf9 insect cells
Accession:	Q99075 (D63-L148)
Gene ID:	1839
Molecular Weight:	Approximately 16.4 kDa

PROPERTIES

AA Sequence	<p>M K L L P S V V L K L F L A A V L S A L V T G E S L E R L R R G L A A G T S N P</p> <p>D P P T V S T D Q L L P L G G G R D R K V R D L Q E A D L D L L R V T L S S K P</p> <p>Q A L A T P N K E E H G K R K K K G K G L G K K R D P C L R K Y K D F C I H G E</p> <p>C K Y V K E L R A P S C I C H P G Y H G E R C H G L S L</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 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.
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>HB-EGF Protein, a versatile growth factor, exerts its regulatory effects through EGFR, ERBB2, and ERBB4. Crucial for cardiac valve formation and normal heart function, HB-EGF plays a pivotal role in promoting smooth muscle cell proliferation and may contribute to macrophage-mediated cellular proliferation. Exhibiting mitogenic properties for fibroblasts while sparing endothelial cells, HB-EGF distinguishes itself by binding to EGF receptor/EGFR with greater affinity than EGF, emerging as a more potent mitogen for smooth muscle cells. Beyond its proliferative role, HB-EGF serves as a diphtheria toxin receptor and engages in interactions with FBLN1. The multifaceted interactions of HB-EGF with EGFR and ERBB4 underscore its central role in cellular regulation and cardiovascular development.</p>
-------------------	---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA