HB-EGF Protein, Human (HEK293, His)

Cat. No.:	HY-P72487
Synonyms:	Proheparin-binding EGF-like growth factor; HB-EGF; DT-R; DTS; HEGFL
Species:	Human
Source:	HEK293
Accession:	Q99075 (L20-L148)
Gene ID:	1839
Molecular Weight:	Approximately 18 kDa

PROPERTIES

AA Sequence	L V T G E S L E R L R R G L A A G T S N 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 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 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
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	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.

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

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