

**HBEGF, 63-148aa, Human, His tag, E.coli**

**Cat.NO.: TP02408**

3th Edition

**Synonyms:** Heparin-binding EGF-like growth factor, DTR, DTS, DTSF, HEGFL

**Description:** HBEGF is growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. It is required for normal cardiac valve formation and normal heart function. This protein promotes smooth muscle cell proliferation. It may be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Recombinant human HBEGF protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

**Molecular Weight:** 12.1kDa (109aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSDLQEADLDLLRVTLSSKPQALATPNKEEHGKRKKKGKGLGKKRDPCLRKYK  
DFCIHGCEKYVKELRAPSCICHPGYHGERCHGLSL

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.