

Human Heparin Binding EGF-like growth factor (HB-EGF)

Alternate names:	DTR, Diphteria toxin receptor
Catalog No.:	PA525
Quantity:	10 µg
Background:	HB-EGF is an EGF related growth factor that signals through the EGF receptor, and stimulates the proliferation of smooth muscle cells (SMC), fibroblasts, epithelial cells, and keratinocytes. HB-EGF is expressed in numerous cell types and tissues, including vascular endothelial cells and SMC, macrophages, skeletal muscle, keratinocytes, and certain tumor cells. The ability of HB-EGF to specifically bind heparin and heparin sulfate proteoglycans is distinct from other EGF-like molecules, and may be related to the enhanced mitogenic activity, relative to EGF, that HB-EGF exerts on smooth muscle cells. The human HB-EGF gene encodes a 208 amino acid transmembrane protein, which can be proteolytically cleaved to produce soluble HB-EGF.
Species:	Human
Source:	E. coli
Format:	State: Lyophilized purified fraction (>95% pure by SDS-PAGE gel and HPLC analyses) without preservatives. Purity: >95% Endotoxin Level: < 0.1 ng per µg (1 EU/µg) Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml.
Description:	Recombinant human HB-EGF is a 9.7 kDa protein containing 86 amino acid residues, corresponding to the extra-cellular EGF-like and heparin binding domains of the full length HB-EGF protein. AA Sequence: DLQEADLDLL RVTLSSKPQA LATPNKEEHG KRKKKGKGLG KKRDPCLRKY KDFCIHGCEK YVKELRAPS CICHPGYHGE RCHGLSL. Biological Activity: The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is < 1.0 ng/ml. Specific Activity: > 1 x 10e6 units/mg. Molecular weight: 9.7 kDa
Add. Information:	Centrifuge the vial prior to opening.!
Storage:	Store the lyophilized protein at -20 °C. Reconstituted human CTGF should be stored in working aliquots at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.