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32-20167: Recombinant Human HB-EGF(Discontinued)

Reactivity : Human, Mouse, Rat

Alternative Name : Heparin Binding EGF-like growth factor, HBEGF, Diphtheria toxin receptor (DTR)

Description

Source:E.coliHB-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 vascular 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. Recombinant Human HB-EGF is a 9.7 kDa protein containing 86 amino acid residues, corresponding to the extracellular EGF-like and heparin-binding domains of the full length HB-EGF protein.

Product Info

Amount : 10 µg / 50 µg

Purification : Purity: >= 95% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : DLQEADLDLL RVTLSSKPQA LATPNKEEHG KRKKKGKGLG KKRDPCLRKY KDFCIHGECKYVKELRAPSC ICHPGYHGER CHGLSL

Application Note

Determined by a cell proliferation assay using Balb/c 3T3 cells. The expectedÃ□Â ED_{50}Ã□Â is <= 1.0 ng/ml, corresponding to a specific activity of >= 1 x 10^6units/mg.