Recombinant Human HB-EGF (Heparin Binding EGF)

Cat No:HR2R1482

For research use only

Overview

Quantity	50 ?g
Gene Symbol	HBEGF
Gene ID	1839
Accession	Q99075
Alternative Name	Heparin Binding EGF-like growth factor, HBEGF, Diphtheria toxin receptor, DTR
Species	Human
Source	E. coli
Description	Human HBEGF (Heparin Binding EGF like growth factor) is a member of the EGF family of peptide growth factors that signal through the EGF receptor, and stimulates the proliferation of smooth muscle cells, fibroblasts, epithelial cells, and keratinocytes. HBEGF is expressed in many cell types and tissues, including bronchial epithelium, visceral and vascular smooth muscle, CD4+ T cells, glomerular podocytes, keratinocytes, macrophages and certain tumor cells. Mature HBEGF is a soluble peptide that arises from the proteolytic processing of the 208 amino acid type-I transmembrane form and exhibits the ability to specifically bind heparin and heparin sulfate proteoglycans.
Functions	The ED50, as determined by a cell proliferation assay (using balb/c 3T3 cells) is ? 1.0 ng/ml, corresponding to a specific activity of ? 1 x 106 units/mg.
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS.
Solubility	It is recommended to reconstitute HBEGF in sterile PBS at 250 ?g/mL.
Appearance	Lyophilized Powder
Molecular Weight	10.1
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.