9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

HB-EGF Human

HB-EGF Human Recombinant
GRF0146

Product Overview

Name	HB-EGF Human
Description	
HB-EGF Human Recombinant	
Accession (Primary)	Q99075
Synonyms	
HBEGF, DTR, DTS, HEGFL, HB-EGF, Diphtheria toxin receptor, DT-R, DTSF.	
Introduction	
HB-EGF is an EGF related growth factor which signals via the EGF receptor, and stimulates the proliferation of SMC (smooth muscle cells), fibroblasts, epithelial cells and keratinocytes. HB-EGF is expressed in various cell types and tissues, including vascular endothelial cells and SMC, macrophages, skeletal muscle, keratinocytes and particular tumor cells. HB-EGF′s ability to explicitly bind HPR sulfate proteoglycans is dissimilar from other EGF-like molecules, and might be related to the enhanced mitogenic activity, relative to EGF, that HB-EGF exerts on smooth muscle cells.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM sodium phosphate pH-7.5.	
Stability	
Lyophilized Human HB-EGF Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HB-EGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MDLQEADLDL LRVTLSSKPQ ALATPNKEEH GKRKKKGKGL GKKRDPCLRK YKDFCIHGEC KYVKELRAPS CICHPGYHGE RCHGLSL.	

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Biological Activity

The ED 50 was determined by the ability to induce proliferation of 3T3 cells and is 0.13-0.2ng/ml. This corresponds to an expected specific activity of 7.7 x 10 6 units/mg.

Solubility

It is recommended to reconstitute the lyophilized Human HB-EGF in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

HB-EGF Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99075)