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HB-EGF Rat

Proheparin-Binding EGF-like Growth Factor Rat Recombinant
GRF0149

Product Overview

Name	HB-EGF Rat

Description

Proheparin-Binding EGF-like Growth Factor Rat Recombinant

Accession (Primary)	Q06175

Synonyms

Proheparin-binding EGF-like growth factor, Heparin-binding EGF-like growth factor, HB-EGF, HBEGF, Dtr, Hegfl, GFHB.

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 heparin and heparin 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 filtered (0.2 µm) and lyophilized from a concentrated solution containing PBS, 300mM NaCl, pH 7.4 and 5% trehalose.

Stability

Lyophilized Rat 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: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Amino acid sequence

DLEGTDLDLF KVAFSSKPQA LATPGKEKNG KKKRKGKGLG KKRDPCLKKY KDYCIHGECR YLKELRIPSC HCLPGYHGQR CHGLTL.

Biological Activity

Solubility

It is recommended to reconstitute the lyophilized Rat HB-EGF in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (Q06175)