
Product Data Sheet

Product Name: HB-EGF Mouse
 Cat. No.: GP20274
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	DTR; HEGFL; diphtheria toxin receptor; DTSF.		
Amino Acid Sequence	DLEGTDLNLF KVAFSSKPOG LATPSKERNG KKKKKGKGLG KKRDPCLRKY KDYCIHGECR YLQEFRTSPSC KCLPGYHGHR CHGLTL.		
Solubility	It is recommended to reconstitute the lyophilized Mouse 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.		
Formulation	The protein was filtered (0.2µm) and lyophilized from a concentrated solution containing 10mM PB and 500mM NaCl, pH7.4.		

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 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.

Biological Activity

The ED₅₀ was determined by a cell proliferation assay using balb/c 3T3 cells is < 1.0 ng/ml, corresponding to a specific activity of > 1.06¹10⁶ units/mg.

Stability

Lyophilized Mouse HB-EGF Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution HB-EGF should be

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

HB-EGF Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 86 amino acids (63-148 a.a.) and having a molecular mass of 9.8 kDa.The HB-EGF is purified by proprietary chromatographic techniques

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