
Product Data Sheet

Product Name: HB-EGF Human, His

Cat. No.: GP20276

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proheparin-binding EGF-like growth factor; HBEGF; DTR; DTS; HEGFL; HB-EGF; Heparin-binding EGF-like growth factor; Diphtheria toxin receptor; DT-R; DTSF.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSDLQEADL DLLRVTLSK PQALATPNKE EHGKRKKKGK GLGKKRDPCL RKYKDFCIHG ECKYVKELRA PSCICHPGYH GERCHGLSL.		
Formulation	The HB-EGF His solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 2mM DTT and 50% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HB-EGF His Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 109 amino acids (63-148) and having a molecular mass of

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

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12.1kDa.HB-EGF His is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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