



Proheparin-Binding EGF-like Growth Factor, human recombinant, His Tag (rhuDTR)

Catalog No: 99924
Lot No: XXXXX
Source: *E. coli*
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

Background

HB-EGF is an EGF related growth factor, which signals via the EGF receptor, and stimulates the proliferation of smooth muscle cells (SMCs), fibroblasts, epithelial cells and keratinocytes. HB-EGF is expressed in various cell types and tissues, including vascular endothelial cells, SMCs, 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.

Description

HB-EGF His Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain containing 109 amino acids (63-148). It has a molecular mass of 12.1 kDa. HB-EGF His is fused to a 23 amino acid His-tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered, clear solution.

Formulation

The HB-EGF His solution (0.5 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.2 M NaCl, 2 mM DTT and 50% glycerol.

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.

Purity

Greater than 85% as determined by SDS-PAGE.

Usage

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