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32-1135: EGF Long Recombinant Protein

Alternative Name : Urogastrone,URG,EGF.

Description

Source : Escherichia Coli. Recombinant Human EGF Long produced in E.coli cells is a single non-glycosylated, polypeptide chain containing 106 amino acids and having a molecular mass of 12.3kDa. The EGF Long is purified by proprietary chromatographic techniques. Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Long EGF is a recombinant analog of Human EGF developed as a replacement for use in therapeutic cell culture applications as a like-for-like supplement for Recombinant Human or native EGF. It includes the Human EGF amino acid sequence plus a 53 amino acid N-terminal extension peptide.

Product Info

Amount :	100 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The EGF Long was lyophilized from a 0.2µm filtered concentrated solution in 10mM HCl.
Storage condition :	Lyophilized EGF Long although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGF Long 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.
Amino Acid :	MFPAMPLSSL FANAVLRAQH LHQLAADTYK EFERAYIPEG QRYSIQVNFA HYGNSDSECP LSHDGYCLHD GVCMYIEALD KYACNCVVGY IGERCQYRDL KWWELR

Application Note

It is recommended to reconstitute the lyophilized EGF Long in sterile 100mM AcOH (acetic Acid) not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of > 1.0 Ã□â□□ 106 IU/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.