
Product Data Sheet

Product Name: EGF Long Human
 Cat. No.: GP20171
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Urogastrone; URG; EGF.		
Amino Acid Sequence	MFPAMPLSSL FANAVLRAQH LHQLAADTYK EFERAYIPEG QRYSIQVNFA HYGNSDSECP LSHDGYCLHD GVCMYIEALD KYACNCVVG YIGERCQYRDL KWWELR		
Solubility	It is recommended to reconstitute the lyophilized EGF Long in sterile 100mM AcOH (acetic Acid) not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The EGF Long was lyophilized from a 0.2µm filtered concentrated solution in 10mM HCl.		

Introduction

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.

Biological Activity

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 $> 1.0 \times 10^6$ IU/mg.

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

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Stability

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.

Background

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.

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