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EGF Long Human

Epidermal Growth Factor Long Human Recombinant
GRF0031

Product Overview

Name	EGF Long Human
Description	
Epidermal Growth Factor Long Human Recombinant	
Accession (Primary)	P01133
Synonyms	
Urogastrone, URG, EGF.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The EGF Long was lyophilized from a 0.2 µm filtered concentrated solution in 10mM HCl.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MFPAMPLSSL FANAVLRAQH LHQLAADTYK EFERAYIPEG QRYSIQVNFA HYGNSDSECP LSHDGYCLHD	

GVCMYIEALD KYACNCVVGY IGERCQYRDL KWWELR

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 × 10 6 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized EGF Long in sterile 100mM AcOH (acetic Acid) not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

EGF Long Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01133)