

## EGF (Leu 21) Human

**Description:** EGF 21-Leu Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6205 Dalton. The EGF 21-Leu is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-473

For research use only.

**Synonyms:** Urogastrone, URG, EGF.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Asn-Ser-Asp-Ser-Glu.

**Purity:** Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.

**Stability:**

Lyophilized Epidermal Growth Factor 21 Leu although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGF 21-Leu 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Epidermal Growth Factor 21-Leu in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**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.

**Biological Activity:**

The ED<sub>50</sub>, calculated by the dose-dependant proliferation of MDCK cells is < 10ng/ml concentration corresponding to a Specific Activity of 100,000IU/mg.

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