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# EGF Human, Pichia

**Catalog #:**CYPS-339

For research use only.

**Description:**Epidermal Growth Factor Human Recombinant produced in Pichia Pastoris is a single, glycosylated, polypeptide chain containing 51 amino acids and having a molecular mass of 6KDa.The EGF is purified by proprietary chromatographic techniques.

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

**Source:**Pichia Pastoris.

**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, which agrees with the sequence of native EGF human.N-terminal methionine has been completely removed enzymatically.

**Purity:**Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**
Each lyophilized mg contains 0.15M NaCl, 0.025M sodium bicarbonate, pH-7.5.

**Stability:**
Lyophilized Epidermal Growth Factor Recombinant althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGF 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. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**
It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18M-cm H2O 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 ED50, calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells (measured by 3H-thymidine uptake) is < 0.1 ng/ml corresponding to a specific activity of 10MUnits/mg.

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