

## 32-1133: EGF Pichia Recombinant Protein

**Alternative Name :** Urogastrone,URG,EGF.

### Description

Source : Pichia Pastoris. 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. 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.

### Product Info

<b>Amount :</b>	0.5mg
<b>Purification :</b>	Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Content :</b>	Each lyophilized mg contains 0.15M NaCl, 0.025M sodium bicarbonate, pH-7.5. Lyophilized Epidermal Growth Factor Recombinant although 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.
<b>Storage condition :</b>	
<b>Amino Acid :</b>	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.

### Application Note

It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\Omega$ μg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub>, 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 10,000,000 Units/mg.

