

## EGF, Human

**Cat. No.:** Z00333-10

**Size:** 10.0 ug

**Synonyms:** Human Epidermal Growth Factor (EGF)

**Description:**

Epidermal Growth Factor (EGF) is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal and epithelial cells. Recombinant human Epidermal Growth Factor (EGF) is a 6,200 Da protein containing 53 amino acid residues.

**Amino Acid Sequence:**

00001 MNSDSECP L S HDGYCLHDGV CMYIEALDKY ACNCVVG YIG  
00041 ERCQYRDLKW WELR

**Source:** *E. coli*

**Species:** Human

**Biological Activity:** The ED50, calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 0.2 ng/ml, corresponding to a specific activity of  $5.0 \times 10^6$  IU/ mg.

**Molecular Weight:** 6.2 kDa $\pm$ 10% determined by reduced SDS-PAGE

**Sequence Analysis:** The sequence of the first fifteen N-terminal amino acids was determined and was found to be Met- Asn-Ser-Asp-Ser-Glu-Cys-Pro-Leu-Ser-His-Asp-Gly-Tyr-Cys.

**Formulation:** Recombinant human Epidermal Growth Factor (EGF) was lyophilized after extensive dialysis against 10mM Phosphate buffer, pH7.0, 200mM NaCl buffer.

**Reconstitution:** It is recommended to reconstitute the lyophilized recombinant human Epidermal Growth Factor (EGF) in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

**Purity:** Greater than 95% as determined by  
(a) Analysis by SEC-HPLC  
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

**Endotoxin Level:** Less than 0.2 EU/ $\mu$ g of recombinant human Epidermal Growth Factor (EGF) as determined by LAL test.

**Storage:** Lyophilized recombinant Human Epidermal Growth Factor (rhEGF) remains stable up to 12 months at lower than -70°C from date of receipt. Upon reconstitution, rhEGF should be stable up to 4 weeks at 4°C or up to 6 months at -20°C.