

EGF, Human

Cat. No.: Z00333-1

Size: 1.0 mg

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 MNSDSECLPS HDGYCLHDGV CMYIEALDKY ACNCVVGYIG
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 5.0×10^6 IU/ mg.

Molecular Weight: 6.2 kDa+/-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 Ω -cm H₂O not less than 100 μ 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/ μ 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.