

Product: Epidermal Growth Factor (*Pichia*), Human Recombinant
Catalog #: 11-EGF-P
Amount: 5 µg

DESCRIPTION: Recombinant Human EGF produced in E.Coli is a single, glycosylated, polypeptide chain containing 51 amino acids and having a molecular mass of 6KDa. The rHuEGF is purified by proprietary chromatographic techniques. 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 human EGF. N-terminal methionine has been completely removed enzymatically.

SOURCE: *Pichia Pastoris*

PURITY: Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuEGF.

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified in 20mM Tris PH-7.5 and 150mM sodium chloride.

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 2.858 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of EGF as a Reference Standard.

CONCENTRATION: 0.1 mg/ml

BIOLOGICAL ACTIVITY: rHuEGF is fully biologically active when compared to standards. 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 1 x 10⁷ Units/mg.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles

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