

Product: Epidermal Growth Factor, Human Recombinant
Catalog #: 11-EGF
Amount: 50 µg

DESCRIPTION: Recombinant Human EGF produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6222 Dalton.
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: *E.Coli* Expression System

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.

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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489 Common Street, Belmont, MA 02478, USA; Email: info@arpl.com or staff@arpl.com
Phone: 800-832-2611 or 617-489-1120 Fax: 888-832-2613 or 617-489-5120