



**Catalog Number:** PR27009

**Product Type:** Recombinant Protein

**Source:** *E.Coli*

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Asn-Ser-Tyr-Pro-Gly, which agrees with the sequence of native Epidermal Growth Factor mouse.

**Description/Molecular Mass:** Recombinant Human Epidermal Growth Factor produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6222 Dalton. The EGF is purified by proprietary chromatographic techniques.

**Protein Content:** EGF 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% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of EGF as a Reference Standard.

**Purity:** Greater than 97.0% as determined by (a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Biological Activity:** 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 10MUnits/mg.

**Format:** The protein was lyophilized from a concentrated (1mg/ml) solution containing 1x PBS pH-7.4.

**Reconstitution:** It is recommended to reconstitute the lyophilized Interleukin-17 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized Interleukin-17 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL6 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).

### FOR RESEARCH USE ONLY

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