



## Recombinant Human EGF, Pichia

## Datasheet

**Catalog Number:** PR27007

**Product Type:** Recombinant Protein

**Source:** Pichia

**Amino Acid Sequence:** 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.

**Description/Molecular Mass:** Epidermal Growth Factor Human Recombinant produced in Pichia Pastoris is a single, glycosylated, polypeptide chain containing 51 amino acids and having a molecular mass of 6KDa. The EGF is purified by proprietary chromatographic techniques.

**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 standard solution of EGF as a Reference Standard.

**Biological Activity:** The ED<sub>50</sub> calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells (measured by <sup>3</sup>H-thymidine uptake) is less than 0.1 ng/ml corresponding to a specific activity of 1 x 10<sup>7</sup> Units/mg.

**Purity:** Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Format:** Each lyophilized mg contains contains 0.15M NaCl, 0.025M sodium bicarbonate, pH-7.5.

**Reconstitution:** It is recommended to reconstitute the lyophilized Epidermal Growth Factor 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 Epidermal Growth Factor Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGF 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).  
**Please avoid freeze-thaw cycles.**

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