

# Recombinant Animal Free Human EGF protein

Catalog Number: ATGP4153

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

971-1023aa

### UniProt No.

P01133

### NCBI Accession No.

NP\_001954.2

### Alternative Names

Epidermal growth factor, Pro-epidermal growth factor, urogastrone, EGF

## PRODUCT SPECIFICATION

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### Molecular Weight

6.3 kDa (54aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq$  0.1 ng/ml.

### Tag

Non-Tagged

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant Animal Free Human EGF protein

Catalog Number: ATGP4153

## Description

Recombinant human epidermal growth factor (EGF) is a 6.3 kDa globular protein containing 54 amino acids residues, including 3 intra-molecular disulfide bonds. EGF is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. Recombinant EGF was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. Produced using non-animal reagents in an animal-free laboratory

## Amino acid Sequence

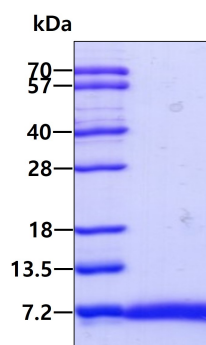
MNSDSECLPS HDGYCLHDGV CMYIEALDKY ACNCVVG YIG ERCQYRDLKW WELR

## General References

- Riese., et al (1998 ) Bioessays. 20: 41-48.
- Cohen S., (1983) Cancer. 15: 1787-1791.
- Carpenter G., et al (1979) Annu. Rev. Biochem., 48: 193-216.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### Biological Activity

Human EGF stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq 0.1$  ng/ml.

