

# Recombinant mouse EGF protein

Catalog Number: ATGP3729

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

977-1029aa

### UniProt No.

P01132

### NCBI Accession No.

NP\_034243

### Alternative Names

Epidermal growth factor, Pro-epidermal growth factor isoform1, A1790464

### Additional Information

ATGP1532 has been replaced with a catalog number ATGP3729.

## PRODUCT SPECIFICATION

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### Molecular Weight

8.6 kDa (77aa) Confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 2mM DTT, 10% glycerol

### 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 mouse Balb/3T3 cell. The ED50 range  $\leq$  1ng/ml.

### Tag

His-Tag

### 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.

# Recombinant mouse EGF protein

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## BACKGROUND

### Description

Egf, also known as Pro-epidermal growth factor isoform1, is a 8.6 kDa globular protein containing 77 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 mouse Egf protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional column chromatography

### Amino acid Sequence

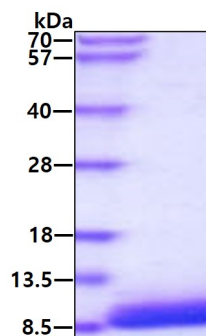
<MGSSHHHHHH SGLVPRGSH MGSM>NSYPGC PSSYDGYCLN GGVCMHIESL DSYTCNCVIG YSGDRCQTRD LRWWELR

### General References

Riese., et al (1998) Bioessays. 20(1):41-8.  
Cohen S (1983) Cancer. 51(10):1787-91.

## DATA

### SDS-PAGE



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

### Biological Activity

Mouse EGF in a cell proliferation assay using mouse Balb/3T3 cell. The ED50 range  $\leq 1$  ng/ml.

