

RP00359

Leader in Biomolecular Solutions for Life Science



# Recombinant Human EGF Protein

Catalog No.: RP00359 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	1950	P01133

**Tags**  
No tag

**Synonyms**  
EGF;HOMG4;URG

## Product Information

Source	Purification
	≥ 95 % as determined by SDS-PAGE.

**Endotoxin**  
< 1 EU/μg of the protein by LAL method.

**Formulation**  
Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 200 mM NaCl, pH 7.0. Contact us for customized product form or formulation.

**Reconstitution**  
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

This protein belongs a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.

## Basic Information

**Description**  
Recombinant Human EGF Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asn971-Arg1023) of human EGF (Accession #P01133).

**Bio-Activity**  
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED<sub>50</sub> for this effect is 44-176 pg/mL, corresponding to a specific activity of 5.68×10<sup>6</sup>~2.27×10<sup>7</sup> units/mg.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

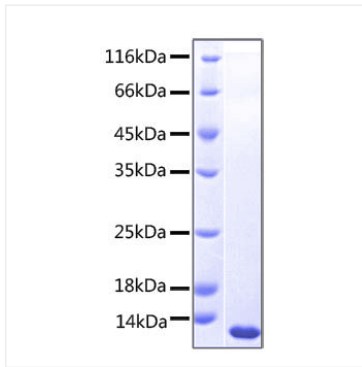
**Operational Notes**  
For your safety and health, please wear a lab coat and disposable gloves for handling.

**Storage**  
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

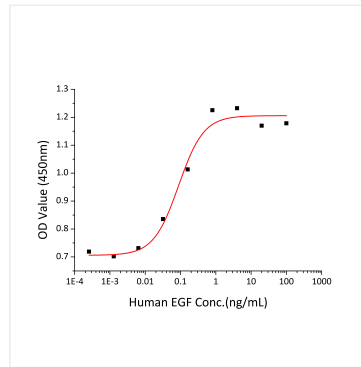
\* For your safety and health, please wear a lab coat and disposable gloves when handling.

## Validation Data

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Recombinant Human EGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human EGF Protein promote the proliferation of Balb3T3 mouse fibroblast cells. The ED<sub>50</sub> for this effect is 44-176 pg/mL, corresponding to a specific activity of  $5.68 \times 10^6 \sim 2.27 \times 10^7$  units/mg.