

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% 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.

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).

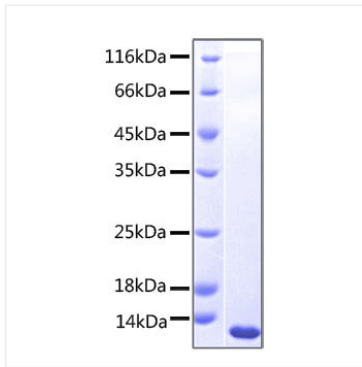
Bio-Activity
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED₅₀ for this effect is 44-176 pg/mL, corresponding to a specific activity of $5.68 \times 10^6 \sim 2.27 \times 10^7$ units/mg.

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.

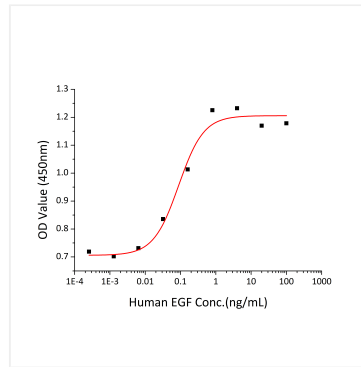
Contact

 www.abclonal.com

Validation Data



Recombinant protein Human EGF was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 10 kDa.



Recombinant Human EGF Protein promote the proliferation of Balb3T3 mouse fibroblast cells. The ED₅₀ 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.