

RP00359

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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

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.

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.

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 5.68×10⁶~2.27×10⁷ 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.

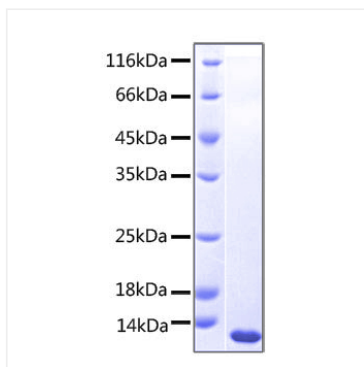
Contact



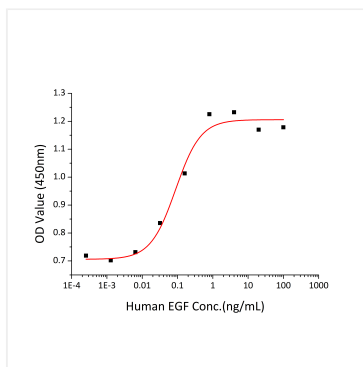
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* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



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 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.