

Active Recombinant Human EGF protein, His-TrxA-tagged

Cat. No. EGF-3134H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human EGF protein(P01133)(971~1023 aa), fused with His tag and TrxA tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	971-1023 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Epidermal growth factor (EGF) is a growth factor that stimulates cell growth, proliferation, and differentiation by binding to its receptor EGFR. To test the effect of EGF on cell proliferation of 3T3 fibroblasts, Balb/c 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 8, 000 cells/well and allowed to attach overnight, then the medium was replaced with 0.4% FBS standard DMEM prior to the addition of various concentrations of recombinant human EGF. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µof CCK-8 solution was added to each well of the platethen measure the absorbance at 450 nm using a microplate reader after incubating the plate for 1-4 hours at 37°C. Cell proliferation of Balb/c 3T3 cells after incubation with rhEGF for 48h observed by inverted microscope was shown. The dose-effect curve of rhEGF was shown. It was obvious that rhEGF significantly

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promoted cell proliferation of 3T3 cells. The ED50 for this effect is typically 4.2 ng/ml.

Molecular Mass 24.0kDa

Endotoxin <1.0EU per 1µg (determined by the LAL method).

Purity > 90% as determined by SDS-PAGE.

Storage Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name EGF epidermal growth factor [Homo sapiens]

Official Symbol EGF

Synonyms EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;

Gene ID 1950

mRNA Refseq NM_001178130

Protein Refseq NP_001171601

MIM 131530

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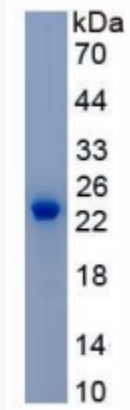
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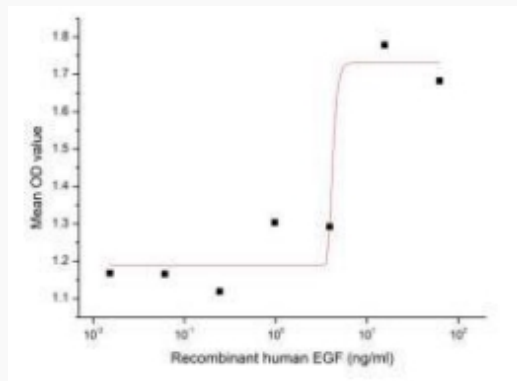
UniProt ID

P01133

SDS-PAGE



Activity



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