

Active Recombinant Rat EGF protein, His-GST-tagged

Cat. No. EGF-2364R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat EGF protein(P07522)(974~1026 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	974-1026 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Epidermal growth factor (EGF) binding to EGFR, results in cellular proliferation, differentiation, and survival. To test the effect of EGF on cell proliferation, 3T3 fibroblasts cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 1% serum standard DMEM prior to the addition of various concentrations of recombinant rat EGF. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μ of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of 3T3 cells after incubation with EGF for 96h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant EGF for 96h. It was

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obvious that EGF significantly increased cell viability of 3T3 cells.

Molecular Mass	36.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% 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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

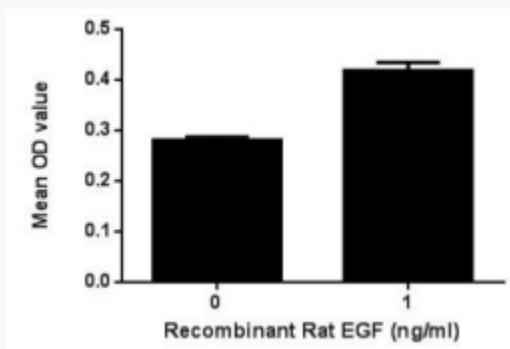
Gene Name	Egf epidermal growth factor [Rattus norvegicus]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; pro-epidermal growth factor;
Gene ID	25313
mRNA Refseq	NM_012842
Protein Refseq	NP_036974

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Activity



SDS-PAGE

