

## Active Recombinant Rat EGF protein, His-GST-tagged

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

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Active Recombinant Rat EGF protein(P07522)(974~1026 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.  |
| <b>Species</b>          | Rat   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 974-1026 aa   |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.  |
| <b>Bio-activity</b>     | 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, 10 $\mu$ 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.

|                       |  |
|-----------------------|--|
| <b>Molecular Mass</b> | 36.1kDa  |
| <b>Endotoxin</b>      | <1.0EU per 1µg (determined by the LAL method).   |
| <b>Purity</b>         | > 95% as determined by SDS-PAGE.   |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.          |

## GENE INFORMATION

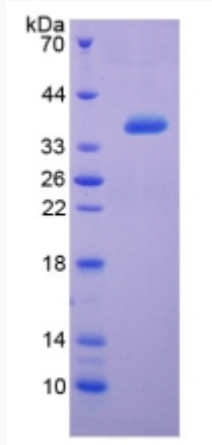
|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Egf epidermal growth factor [ <i>Rattus norvegicus</i> ]   |
| <b>Official Symbol</b> | EGF  |
| <b>Synonyms</b>        | EGF; epidermal growth factor; pro-epidermal growth factor; |
| <b>Gene ID</b>         | 25313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

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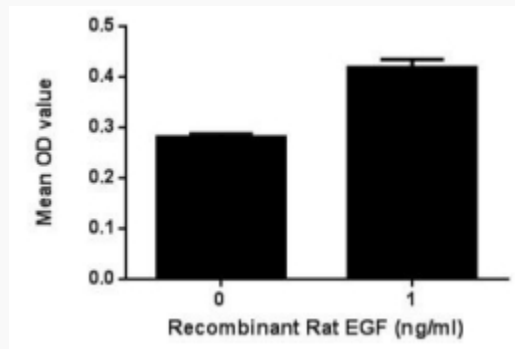
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**SDS-PAGE**



**Activity**



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