

Rat EGF protein, His and GST tag (active)

Cat. No. GTX00373-pro

Applications Functional Assay**Species** Rat**Package**

10 µg

Applications

Application Note

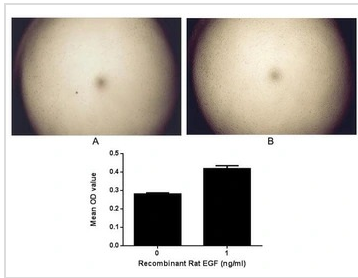
Epidermal growth factor (EGF) binding to EGFR, results in cellular proliferation, differentiation, and survival. To test the effect of EGF on cell proliferation, 3T3 fibroblasts cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach, replaced with 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 µl 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.

Observed MW (kDa) 38 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His and GST-Tag; Asn974~Arg1026 (NP_036974.1)**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

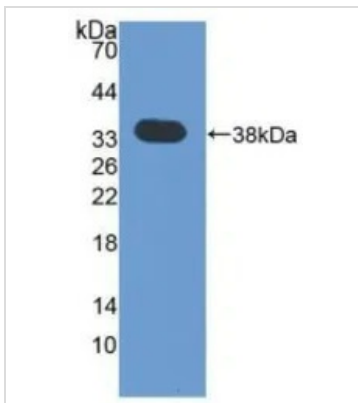
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DATA IMAGES

GTX00373-pro Functional Assay Image

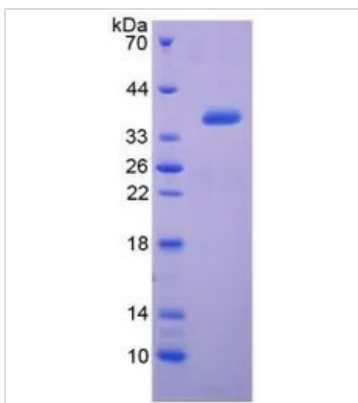
Cell proliferation effect of GTX00373-pro Rat EGF protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated 3T3 cells cultured in DMEM for 96hrs.

(B) 3T3 cells cultured in DMEM, stimulated with 1 ng/ml EGF for 96hrs.


GTX00373-pro Image

WB analysis of GTX00373-pro Rat EGF protein (active).


GTX00373-pro Image

SDS-PAGE analysis of GTX00373-pro Rat EGF protein (active).



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