

## Active Recombinant Rabbit TGFB1 protein, His-tagged

Cat. No. TGFB1-7844R Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Active Recombinant Rabbit TGFB1 protein(Q4LG86)(1~99 aa), fused with N-terminal His tag, was expressed in E.coli.

**Species** Rabbit

**Source** E.coli

**ProteinLength** 1-99 aa

**Form** Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

**Bio-activity** Transforming growth factor beta 1 or TGF- $\beta$ 1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation, and apoptosis. To test the effect of TGF- $\beta$ 1 on cell apoptosis, HepG2 cells were seeded into 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant rabbit TGF- $\beta$ 1. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-2 hours at 37°C. Apoptosis of HepG2 cells after incubation with TGF- $\beta$ 1 for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8 )

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

assay after incubation with recombinant rabbit TGF- $\beta$ 1 for 48h. It was obvious that TGF- $\beta$ 1 significantly inhibit cell viability of HepG2 cells. The ED50 is 7.0  $\mu$ g/ml.

**Molecular Mass** 14.9kDa

**Endotoxin** <1.0EU per 1 $\mu$ g (determined by the LAL method).

**Purity** > 97% 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** TGFB1 transforming growth factor, beta 1 [ *Oryctolagus cuniculus* ]

**Official Symbol** TGFB1

**Synonyms** TGFB1; transforming growth factor, beta 1;

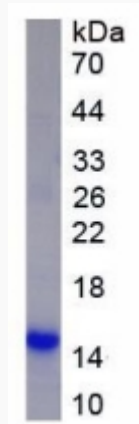
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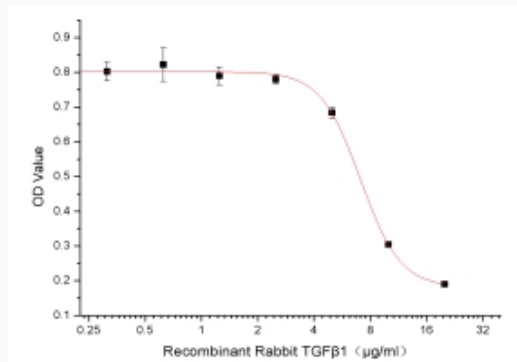
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SDS-PAGE



Activity



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