

Active Recombinant Mouse Tgfb1 protein, His-tagged

Cat. No. Tgfb1-7348M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Tgfb1 protein(P04202)(279~390 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	279-390 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	Transforming growth factor beta 1 or TGF-β1 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-β1 on cell apoptosis, A549 cells were seeded into 96-well plates at a density of 5,000 cells/well with 1% serum standard DMEM including various concentrations of recombinant mouseTGF-β1. After incubated for 48h, 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 2 hours at 37°C. Proliferation of A549 cells after incubation with TGF-β1 for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 assay after incubation

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with recombinant mouse TGF- β 1 for 48h. It was obvious that TGF- β 1 significantly inhibit cell viability of A549 cells. The ED50 is 7.1 μ g/mL.

Molecular Mass	14.1kDa
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

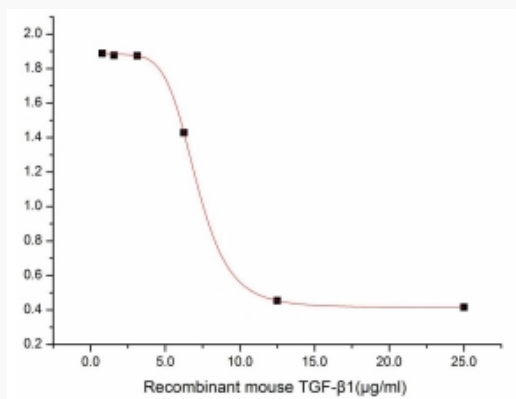
Gene Name	Tgfb1 transforming growth factor, beta 1 [Mus musculus]
Official Symbol	Tgfb1
Synonyms	TGFB1; transforming growth factor, beta 1; transforming growth factor beta-1; TGF-beta 1; TGF-beta-1; regulatory protein; transforming growth factor-beta 1; Tgfb; Tgfb-1; TGFbeta1; TGF-beta1;
Gene ID	21803
mRNA Refseq	NM_011577
Protein Refseq	NP_035707

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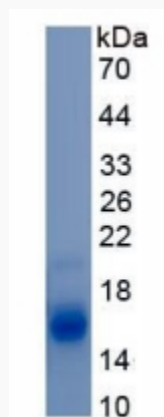
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Activity



SDS-PAGE



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