

Active Recombinant Bovine TGFB1 protein, His-GST-tagged

Cat. No. TGFB1-524C **Lot. No.** (See product label)

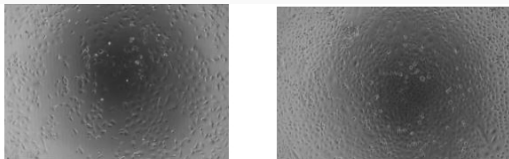
SPECIFICATION

Product Overview	Active Recombinant Bovine TGFB1 protein(P18341)(279~390 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Bovine
Source	E.coli
ProteinLength	279-390 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 (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. It is reported that TGF-β1 can stimulate cell transformation by Smad signal transduction .To test the bioactivity of TGF-β1, A549 cells were seeded into 24-well plate at a density of 1x10⁶ cells/mL, and allowed to attach overnight before treated with certain concentrations of TGF-β1. After 48 hours, the morphological changes of A549 were observed by inverted microscope. The results was shown. A549 cells usually have a cobblestone epithelial morphology and corresponding growth pattern. When stimulated with TGF-β1, the cells were similar with fibroblasts, the connections between cells became loose.

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Molecular Mass	42.8kDa
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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Activity	
SDS-PAGE	