

Active Recombinant Chicken TGFB2 protein, His-tagged

Cat. No. TGFB2-1252C Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Chicken TGFB2 protein(P30371)(279~412 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Chicken
Source	E.coli
ProteinLength	279-412 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Transforming growth factor beta (TGF-β) is a multifunctional cytokine belonging to the transforming growth factor superfamily. The TGF-β superfamily includes endogenous growth inhibiting proteins; an increase in expression of TGF-β often correlates with the malignancy of many cancers and a defect in the cellular growth inhibition response to TGF-β. Its immunosuppressive functions then come to dominate, contributing to oncogenesis. To test the effect of TGF-β on inhibit HGF-dependent proliferation, HepG2 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 2% serum standard DMEM including 1ng/mL HGF prior to the addition of various concentrations of recombinant chicken TGF-β. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μ of CCK-8

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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. The inhibitory effect of TGF- β on HGF-dependent proliferation of HepG2 cells observed by inverted microscope was shown. Cell viability was assessed by CCK-8 assay after incubation with recombinant TGF- β for 96h. It was obvious that TGF- β significantly decreased cell viability of HepG2 cells.

Molecular Mass 19.1kDa

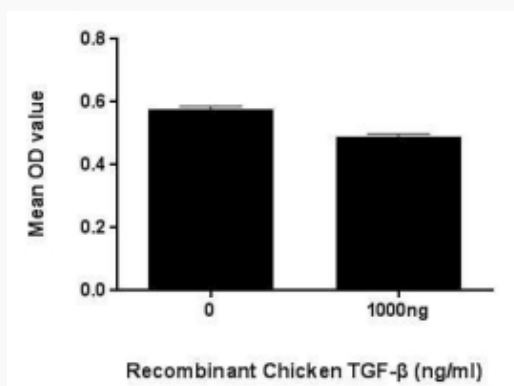
Endotoxin <1.0EU per 1 μ g (determined by the LAL method).

Purity > 90% 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

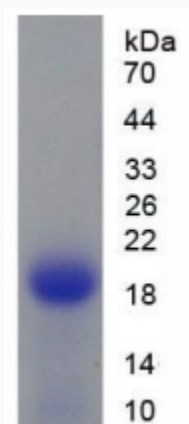


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SDS-PAGE



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