

Active Recombinant Human TGFB2 protein, His-tagged

Cat. No. TGFB2-228H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TGFB2 protein(P61812)(303~414 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	303-414 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 2 (TGFB2) belongs to TGF-beta family. As a secreted protein and a cytokine, TGFB2 plays a role in the formation of blood vessels, the regulation of muscle tissue and body fat development, wound healing, and immune system function. Besides, TGFB2 regulates cell proliferation, differentiation, adhesion, migration by transducing the signal through transmembrane receptors type I and type II (TGFB1 and TGFB2). To test the effect of TGFB2 on inhibit IL4-dependent proliferation, CTLL-2 cells were seeded into triplicate wells of 96-well plates, the medium was 2% serum RPMI-1640 including various concentrations of recombinant human TGFB2. After incubated for 72h, 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 450 nm was measured. Cell viability was assessed by CCK-8 assay. It

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was obvious that TGFB2 significantly decreased cell viability of CTLL-2 cells. The ED50 of recombinant human TGFB2 is 1.95µg/mL.

Molecular Mass	16.6kDa
Endotoxin	<1.0EU per 1µg (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.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
Official Symbol	TGFB2
Synonyms	TGFB2; transforming growth factor, beta 2; transforming growth factor beta-2; G-TSF; cetermin; polyergin; BSC-1 cell growth inhibitor; glioblastoma-derived T-cell suppressor factor; TGF-beta2; MGC116892;
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071

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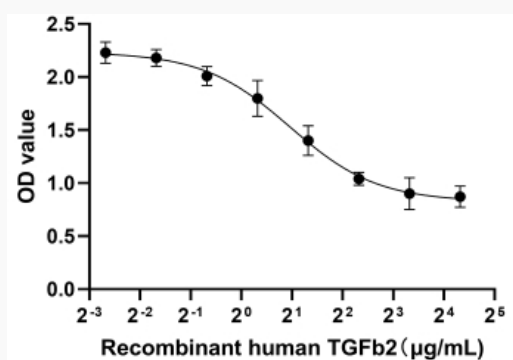
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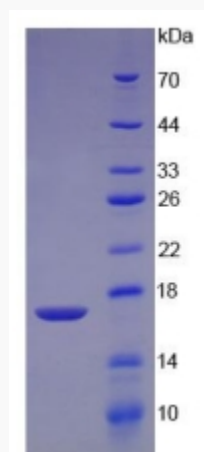
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Activity



SDS-PAGE



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