

Transforming Growth Factor Beta 2 Active Protein | TGFb2 active protein

Active Transforming Growth Factor Beta 2 (TGFb2)

CATALOG #
AAA150084

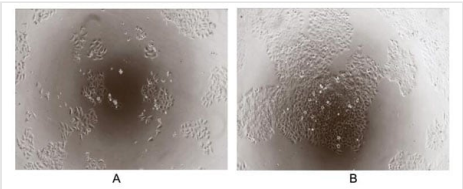
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Transforming Growth Factor Beta 2; Active Transforming Growth Factor Beta 2 (TGFb2); TGF-B2; TGF-Beta2; G-TSF; LAP; Cetermin; Polyergin; Latency-associated peptide; BSC-1 cell growth inhibitor; Glioblastoma-derived T-cell suppressor factor; TGFb2 active protein

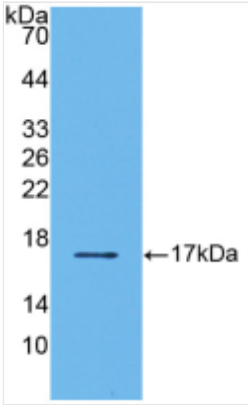
PRODUCT SPECIFICATIONS

Purity/Purification	>90%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Ser303~Glu414
Sequence Length	442
Applicable Applications for TGFb2 active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	8.9
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

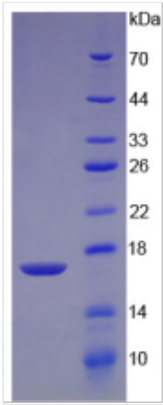


Application Data

Transforming growth factor beta (TGF-) is a multifunctional cytokine belonging to the transforming growth factor superfamily. The TGF- superfamily includes endogenous growth inhibiting proteins; an increase in expression of TGF- often correlates with the malignancy of many cancers and a defect in the cellular growth inhibition response to TGF-. Its immunosuppressive functions then come to dominate, contributing to oncogenesis. To test the effect of TGF- 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 human TGF-. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL 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 1-4 hours at 37. The inhibitory effect of TGF- on HGF-dependent proliferation of HepG2 cells observed by inverted microscope was shown in Figure 2. Cell viability was assessed by CCK-8 assay after incubation with recombinant TGF- for 96h. The result was shown in Figure 3. It was obvious that TGF- significantly decreased cell viability of HepG2 cells. (A) HepG2 cells cultured in DMEM, stimulated with 1ug/mL TGF- for 96h; (B) Unstimulated HepG2 cells cultured in DMEM for 96h. Figure. The inhibitory effect of TGF- on cell proliferation of HepG2 cells.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for TGFb2 active protein	Cytokine; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	208022653
NCBI GeneID	7042
NCBI Accession #	NP_001129071.1
NCBI GenBank Nucleotide #	NP_001129071.1
UniProt Accession #	P61812
Molecular Weight	Predicted Molecular Mass: 16.6kDa Accurate Molecular Mass: 17kDa

NCBI Official Full Name	transforming growth factor beta-2 proprotein isoform 1
NCBI Official Synonym Full Names	transforming growth factor beta 2
NCBI Official Symbol	TGFB2
NCBI Official Synonym Symbols	LDS4; G-TSF; TGF-beta2
NCBI Protein Information	transforming growth factor beta-2 proprotein
UniProt Protein Name	Transforming growth factor beta-2
UniProt Gene Name	TGFB2
UniProt Synonym Gene Names	TGF-beta-2; G-TSF; LAP
UniProt Entry Name	TGFB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tgfb2-active-protein/transforming-growth-factor-beta-2/150084>