

Mature TGF-beta 1 Active Protein | TGF-beta1 active protein

Active Recombinant Human Mature TGF-beta 1 Protein

CATALOG #
AAA28445

HOST
HEK293 cells

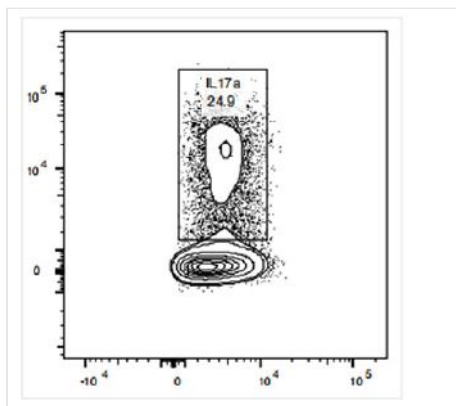
PRODUCT SYNONYMS

Mature TGF-beta 1; Active Recombinant Human Mature TGF-beta 1 Protein; TGFB1; CED; DPD1; LAP; TGFB; TGFbeta; transforming growth factor beta-1; TGF-beta 1; TGF-beta; TGF-beta1 active protein

PRODUCT SPECIFICATIONS

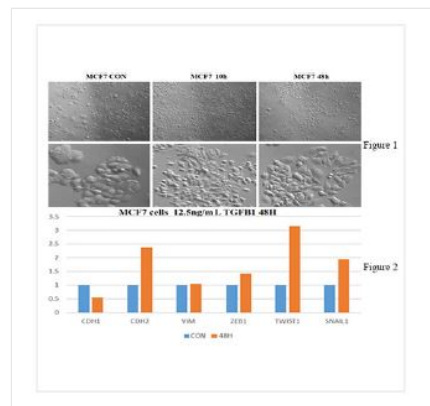
Host	HEK293 cells
Purity/Purification	> 95% by SDS-PAGE.
Form/Format	Liquid Lyophilized from a 0.22 um filtered solution of 50 mM Glycine, 150 mM NaCl, pH3.5.
Species	Human
Tag	No tag
Bioactivity	1. Measured by its binding ability in a functional ELISA. Immobilized Human TGF-beta 1 at 2 ug/mL (100 uL/well) can bind Human TGFB2 with a linear range of 0.78-11 ng/mL. 2. Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED50 for this effect is 0.09-0.39 ng/mL, corresponding to a specific activity of $2.56 \times 10^6 \sim 1.11 \times 10^7$ units/mg.
Preparation and Storage	Store the lyophilized protein at -20 to -80 degree C for 12 months. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week. Avoid repeated freeze/thaw cycles. Ship: Ice Pack

IMAGES



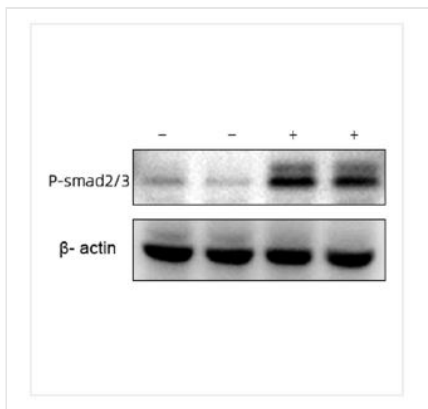
Application Data

Recombinant mouse IL-23 and human TGF-beta1 were used to induce the mouse T cells differentiate into Th17 cells. Flow cytometry was used to detect the expression of IL-17A. Results showed that Th17 cells were induced



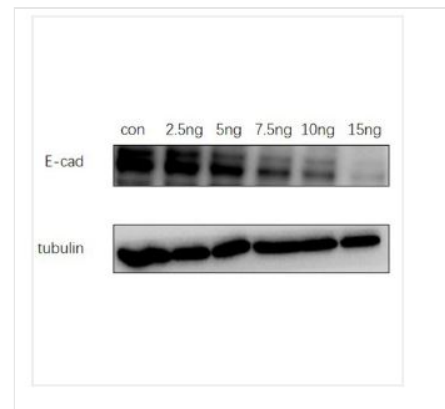
Application Data

Active Recombinant Human Mature TGFbeta 1 induces MCF7 cells EMT with a concentration of 12.5 ng/mL. After 10 h, the cell morphology significantly altered, appearing a fusiform shape (figure 1). After 48 h, the change of EMT associated genes are as figure 2. Results showed that the induction was successful.(Customer feedback data



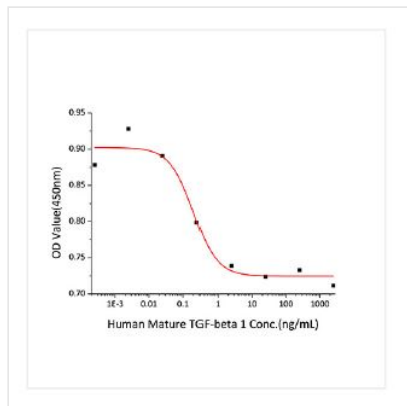
Application Data

Active Recombinant Human mature TGFbeta1 stimulates smad2/3 autophosphorylation in Human Umbilical Vein Endothelial Cells (HUVEC). 10ng/mL of Recombinant Human TGF-beta 1 can effectively enhance smad2/3 autophosphorylation.(Customer feedback data



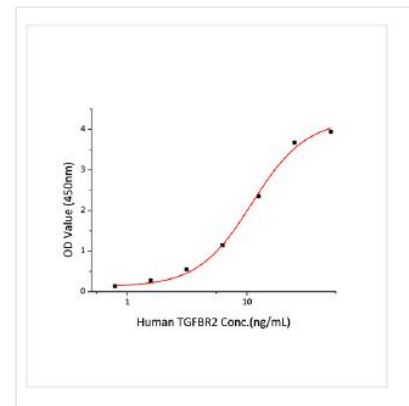
Application Data

Active Recombinant Human mature TGFbeta1 induces EMT in A549 cells. As the concentration of TGF-beta1 increased, the expression of epithelial cell marker E-cad significantly downregulated.(Customer feedback data



Application Data

Recombinant Human Mature TGFβ1 inhibit the IL-4 -dependent proliferation of HT22 mouse T cells. The ED50 for this effect is 0.09-0.39 ng/mL, corresponding to a specific activity of 2.56×10^6 ~ 1.11×10^7 units/mg.



Application Data

Immobilized Human TGF-beta 1 at 2 ug/mL (100 uL/well) can bind Human TGFBR2 with a linear range of 0.78-11 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for TGF-beta1 active protein	Active Recombinant Human Mature TGF-beta 1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala279-Ser390) of human Mature TGF-beta 1 (Accession #NP_000651.3) fused with no tag.
Product Categories/Family for TGF-beta1 active protein	Cytokines & Cytokine receptors ; Cell Culture related

NCBI AND UNIPROT INFORMATION

NCBI GI #	63025222
NCBI GeneID	7040
NCBI Accession #	NP_000651.3
NCBI GenBank Nucleotide #	NM_000660.4
UniProt Accession #	P01137 ; Q9UCG4 ; A8K792
Molecular Weight	44,341 Da
NCBI Official Full Name	transforming growth factor beta-1
NCBI Official Synonym Full Names	transforming growth factor, beta 1

NCBI Official Symbol	TGFB1
NCBI Official Synonym Symbols	CED; LAP; DPD1; TGFB; TGFbeta
NCBI Protein Information	transforming growth factor beta-1; TGF-beta-1; TGF-beta 1 protein; latency-associated peptide
UniProt Protein Name	Transforming growth factor beta-1
UniProt Gene Name	TGFB1
UniProt Synonym Gene Names	TGFB; TGF-beta-1; LAP
UniProt Entry Name	TGFB1_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://www.aaabiotech.com/hek293-tgf-beta1-active-protein/mature-tgf-beta-1/28445>