

TGF beta 1 Active Protein | TGFB active protein

Recombinant Rat TGF beta 1 Protein

CATALOG # AAA174043	HOST HEK293 Cells
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PRODUCT SYNONYMS

TGF beta 1; Recombinant Rat TGF beta 1 Protein; TGF-beta 1; TGFbeta; TGFB active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4
Sequence Positions	Ala279-Ser390
Sequence Length	390
Species	Rat
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method.
Activity	Measured by its ability to inhibit cell proliferation of Mv-1-lu mink lung epithelial cells. The ED50 for this effect is 0.2-0.8 ng/mL.
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at -20°C to -80°C Reconstituted protein solution can be stored at 4°C to 8°C for 2-7 days. Aliquots of reconstituted samples are stable at <-20°C for 3 months.

ADDITIONAL INFORMATION

Related Product Information for TGFB active protein	TGF-beta 1 is a member of the transforming growth factor beta (TGF-beta) family. The transforming growth factor-beta family of polypeptides are involved in the regulation of cellular processes, including cell division, differentiation, motility, adhesion and death. TGF-beta 1 positively and negatively regulates many other growth factors. It inhibits the secretion and activity of many other cytokines including interferon-gamma, tumor necrosis factor-alpha and various interleukins. It can also decrease the expression levels of cytokine receptors. Meanwhile, TGF-beta 1 also increases the expression of certain cytokines in T cells and promotes their proliferation, particularly if the cells are immature. TGF-beta 1 also inhibits proliferation and stimulates apoptosis of B cells, and plays a role in controlling the expression of antibody, transferrin and MHC class II proteins on immature and mature B cells. As for myeloid cells, TGF-beta 1 can inhibit their proliferation and prevent their production of reactive oxygen and nitrogen intermediates. However, as with other cell types, TGF-beta 1 also has the opposite effect on cells of myeloid origin. TGF-beta 1 is a multifunctional protein that controls proliferation, differentiation and other functions in many cell types. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. Once cells lose their sensitivity to TGF-beta1-mediated growth inhibition, autocrine TGF-beta signaling can promote tumorigenesis. Elevated levels of TGF-beta1 are often observed in advanced carcinomas, and have been correlated with increased tumor invasiveness and disease progression.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45239050
NCBI GeneID	59086

Molecular Weight	Molecular Mass: 12.8 kDa Actual Protein Mass: 12.8 kDa
NCBI Official Full Name	TGF beta 1
NCBI Official Synonym Full Names	transforming growth factor, beta 1
NCBI Official Symbol	Tgfb1
NCBI Official Synonym Symbols	Tgfb
NCBI Protein Information	transforming growth factor beta-1 proprotein
UniProt Protein Name	Transforming growth factor beta-1 proprotein
UniProt Gene Name	Tgfb1
UniProt Synonym Gene Names	LAP; TGF-beta-1

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/hek293-cells-tgfb-active-protein/tgf-beta-1/174043>