

TGF-beta1 active protein

LTBP1

CATALOG # AAA79258	HOST CHO Cells	REACTIVITY Human
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PRODUCT SYNONYMS

TGF-beta1; LTBP1; Recombinant Human TGF-beta1; TGF-beta1 active protein

PRODUCT SPECIFICATIONS

Host	CHO Cells
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE and HPLC analyses
Form/Format	Lyophilized
Sequence	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS
Sequence Length	390
Endotoxin Level	< 0.1ng/ug of protein (<1EU/ug).
Reconstitution	Centrifuge the vial before opening. Reconstitute in water to concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to a week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Biological Activity	The ED50 was determined by TGF-beta1's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is <= 0.05 ng/ml (>= 2 x 10 ⁷ units/mg).
Length(aa)	112
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2-8°C and for 12 months at -20°C to -80°C. Avoid repeated freeze and thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TGF-beta1 active protein	The three mammalian isoforms of TGF-beta, TGF-beta1, beta2, beta3, signal through the same receptor and elicit similar biological responses. They are multifunctional cytokines that regulate cell proliferation, growth, differentiation and motility as well as synthesis and deposition of the extracellular matrix. They are involved in various physiological processes including embryogenesis, tissue remodeling and wound healing. They are secreted predominantly as latent complexes which are stored at the cell surface and in the extracellular matrix. The release of biologically active TGF-beta isoform from a latent complex involves proteolytic processing of the complex and/or induction of conformational changes by proteins such as thrombospondin-1. TGF-beta1 is the most abundant isoform secreted by almost every cell type. It was originally identified for its ability to induce phenotypic transformation of fibroblasts and recently it has been implicated in the formation of skin tumors. Recombinant human TGF-beta1 is a 25.0 kDa protein composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond.
Product Categories/Family for TGF-beta1 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	63025222
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NCBI GeneID	7040
NCBI Accession #	NP_000651.3
NCBI GenBank Nucleotide #	NM_000660.5
UniProt Accession #	P01137; Q9UCG4; A8K792
Molecular Weight	25kda
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; latency-associated peptide; prepro-transforming growth factor beta-1
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://stage.aaabiotech.com/cho-cells-human-active-protein/tgf-beta1/79258>