

Active Recombinant Human TGFB β 1, Fc-tagged, Biotinylated

Cat. No. TGFB β 1-695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human TGFB β 1-Fc fusion protein is expressed as a 320 amino acid protein consisting of Leu34 - Glu125 region of TGFB β 1 (UniProt accession #P36897) and a C-terminal Fc fusion from human IgG1, which exists as a dimer/tetramer/octamer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	34-125 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Immobilized TGFB β 1 protein binds human TGF β 1 in a functional ELISA. Blocks TGF β 1-mediated signaling activity.
Molecular Mass	Calculated molecular mass (kDa): 35.6; Estimated by SDS-PAGE under reducing condition (kDa): ~45
AA Sequence	LQCFCHLCTKDNFTCVTDGLCFVSVTETTDKVIHNSMCIAEIDLIPRDRPFVCPASSK TGSVTTYCCNQDHCN KIELPTTVKSSPGLGPVESTGHTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF NWYVDGVEVHNAKTKPREEQYN STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPDS REEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKL

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	TVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK
Endotoxin	<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein="" determined="" by="" the="" lal="">
Purity	>95% judged by SDS-PAGE under reducing condition
Storage	The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.
Conjugation	Biotin

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta receptor 1 [Homo sapiens]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta receptor 1; transforming growth factor, beta receptor I (activin A receptor type II like kinase, 53kD); TGF-beta receptor type-1; activin A receptor type II like kinase; 53kDa; ACVRLK4; ALK 5; tbetaR-I; TGF-beta receptor type I; TGF-beta type I receptor; activin receptor-like kinase 5; transforming growth factor beta receptor I; serine/threonine-protein kinase receptor R4; activin A receptor type II-like kinase, 53kD; activin A receptor type II-like kinase, 53kDa; transforming growth factor-beta receptor type I; activin A receptor type II-like protein kinase of 53kD; transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD); AAT5; ALK5; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1;

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Gene ID	7046
mRNA Refseq	NM_001130916
Protein Refseq	NP_001124388
MIM	190181
UniProt ID	P36897
Chromosome Location	9q22
Pathway	ALK1 signaling events, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Chronic myeloid leukemia, organism-specific biosystem; Chronic myeloid leukemia, conserved biosystem;
Function	ATP binding; I-SMAD binding; SMAD binding; SMAD binding; contributes_to growth factor binding; metal ion binding; nucleotide binding; protein binding; protein heterodimerization activity; protein serine/threonine kinase activity; receptor activity; transforming growth factor beta binding; contributes_to transforming growth factor beta binding; transforming growth factor beta binding; transforming growth factor beta receptor activity, type I; transforming growth factor beta-activated receptor activity; transforming growth factor beta-activated receptor activity; transforming growth factor beta-activated receptor activity; contributes_to transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding; ubiquitin protein ligase binding;

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