

Recombinant Human TGFB1 protein, GST-tagged

Cat. No. TGFB1-4322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB1(1 a.a. - 390 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-390 a.a.
Description	This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide (LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1 homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	70.7 kDa
AA Sequence	MPPSGLRLLLLLLPLLWLLVLTGPRPAAGLSTCKTIDMELVKRKRIEAI RGQILSKLRLA

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SPPSQGEVPPGPLPE AVLALYNSTRDRVAGESAEPEPEPEADYYAKEVTRVLMVET
HNEIYDKFKQSTHSIYMFFNTSELREAVPEPVLL SRAELRLLRLKLKVEQHVELYQKY
SNNSWRYLSNRLLAPSDSPEWLSFDVTGVVRQWLSRGGEIEGFRLSAHCSC DSRD
NTLQVDINGFTTGRRGDLATIHGMNRPFLLLMATPLERAQHLQSSRHRRALDTNYCF
SSTEKNCCVRQLYI DFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLAL
YNQHNP GASAAPCCVPQALEPLIVYYVGRKPK VEQLSNMIVRSCKCS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION
Gene Name

TGFB1 transforming growth factor, beta 1 [Homo sapiens]

Official Symbol

TGFB1

Synonyms

TGFB1; transforming growth factor, beta 1; DPD1, TGFB; transforming growth factor
beta-1; Camurati Engelmann disease; CED; TGFbeta; TGF-beta-1; TGF-beta 1
protein; latency-associated peptide; LAP; DPD1; TGFB;

Gene ID

7040

mRNA Refseq

NM_000660

Protein Refseq

NP_000651

MIM

190180

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UniProt ID	P01137
Chromosome Location	19q13.1
Pathway	ACE Inhibitor Pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	enzyme binding; eukaryotic cell surface binding; growth factor activity; protein N-terminus binding; protein binding; protein heterodimerization activity; protein homodimerization activity; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding;

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