

Recombinant Full Length Human TGFB1 Protein, GST-tagged

Cat. No. TGFB1-666HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human TGFB1(1 a.a. - 390 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	390 amino acids
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	MPPSGLRLLL LLLPLLWLLV LTPGRPAAGL STCKTIDMEL VKRKRIEAIR

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GQILSKLRLA SPSPQGEVPP GPLPEAVLAL YNSTRDRVAG ESAEPEPEPE
 ADYYAKEVTR VLMVETHNEI YDKFKQSTHS IYMFNTSEL REAVPEPVLL
 SRAELRLLRL KLVQEQHVEL YQKYSNNSWR YLSNRLLAPS DSPEWLSFDV
 TGVVRQWLSR GGEIEGFRLS AHCSCDSRDN TLQVDINGFT TGRRGDLATI
 HGMNRPFLLL MATPLERAQH LQSSRHRRAL DTNYCFSSTE KNCCVRQLYI
 DFRKDLGWKW IHEPKGYHAN FCLGPCPYIW SLDTQYSKVL ALYNQHNPQA
 SAAPCCVPQA LEPLPIVYV GRKPKVEQLS NMIVRSCKCS

Applications

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

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

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