

Recombinant Human TGFB1

Cat. No. TGFB1-30773TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TGF-β1 is a 25.0 kDa protein with each subunit containing 112 amino acid residues, linked by a single disulfide bond.
Species	Human
Source	HEK293
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.
Bio-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, corresponding to a specific activity of ≥ 2 x 10 ⁷ units/mg.
Molecular Mass	25.0 kDa
AA Sequence	ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY

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IWSLDTQYSK VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ
LSNMIVRSCK CS

Purity Greater than 98% by SDS-PAGE gel and HPLC analyses.

GENE INFORMATION

Gene Name [TGFB1 transforming growth factor, beta 1 \[Homo sapiens \(human\) \]](#)

Official Symbol TGFB1

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

Gene ID [7040](#)

mRNA Refseq [NM_000660](#)

Protein Refseq [NP_000651](#)

MIM [190180](#)

UniProt ID P01137

Chromosome Location 19q13.1

Pathway ACE Inhibitor Pathway; ALK1 signaling events; Cardiac Progenitor Differentiation

Function enzyme binding; protein N-terminus binding; protein heterodimerization activity

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