

Product datasheet for **TP300973**

TGF beta 1 (TGFB1) (NM_000660) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human transforming growth factor, beta 1 (TGFB1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC200973 Blue=ORF Red=Cloning site Green=Tag(s)

MPPSGLRLLPLLLPLLWLLVLTGPRPAAGLSTCKTIDMELVKKRIEAIKQILSKRLASPPSQGEVP
PGPLPEAVLALYNSTRDRVAGESAEPEPEPEADYYAKEVTRVLMVETHNEIYDKFKQSTHSIYMFNTS
ELREAVPEPVLLSRAELRLRLKLVQHVLYQKYSNNSWRYLSNRLAPSDSPEWLSFDVTGVVRQW
LSRGGEIEGFRLSAHCSDSRDNTLQVDINGFTTGRRGDLATIHGMNRPFLLLMATPLERAQHLQSSRH
RRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQ
HNPGASAAPCCVPQALEPLPIVYVGRKPKVEQLSNMIVRSCKCS
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC200973 also available, [TP300973M](#)

Tag:	C-Myc/DDK
Predicted MW:	28.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Ex vivo tissue treatment (PMID: 25595579)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_000651](#)

Locus ID: 7040

UniProt ID: [P01137](#)

RefSeq Size: 2583

Cytogenetics: 19q13.2

RefSeq ORF: 1170

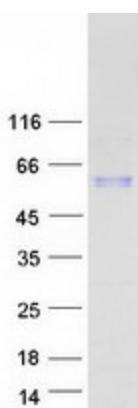
Synonyms: CED; DPD1; IBDIMDE; LAP; TGF-beta1; TGFB; TGFbeta

Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. [provided by RefSeq, Aug 2016]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transcription Factors

Protein Pathways: Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling pathway

Product images:



Coomassie blue staining of purified TGFβ1 protein (Cat# TP300973). The protein was produced from HEK293T cells transfected with TGFB1 cDNA clone (Cat# [RC200973]) using MegaTran 2.0 (Cat# [TT210002]).