

# Recombinant Human Transforming Growth Factor, Beta 1, His-tagged

**Cat. No.** TGFB1-908H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human transforming growth factor, beta 1 encoding the human LAP/Prepro-transforming growth factor-beta 1 (Leu <sup>30</sup> -Arg <sup>278</sup> ) was recombined with his tag at the N-Terminus. That was expressed in <i>E. Coli</i> , and purified by Ni-NTA column. MW=27.4.7KD.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	30-278 a.a.
<b>Description</b>	Transforming growth factor beta 1 or TGF-β1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis.
<b>Sequence</b>	Human LAP/Prepro-transforming growth factor-beta 1 (Leu <sup>30</sup> -Arg <sup>278</sup> ).LSTCKTIDME L VKRKRIEAI RGQILSKLRL ASPPSQGEVP PGPLPEAVLA LYNSTRDRVA GESAEPE PEP EADYYAKEVT RVL MVETHNE IYDKFKQSTH SIYMFNTSE LREAVPEPVL LS RAELRLLR LKLVQEHVE LYQKYSNNSW RYLSNRLLAP SDSPEWLSFD VTGVVR QWLS RGGEIEGFRL SAHCSCDSRD NTLQVDINGF TTGRRGLAT IHGMNRPFL L MATPLERAQ HLQSSRHRR.

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<b>Purity</b>	>95% in SDS gel.
<b>Formulation</b>	Lyophilized 100 µg human LAP/Prepro-transforming growth factor-beta 1 in 50 µl of TBS ( 20 mM Tris, 50mM NaCl, pH8.0 ). Carry free.
<b>Reconstitution</b>	Add 500µl deionized water to the vial to prepare a working stock solution at 200 µg/mL. Allow to set at least 30 minutes at 4°C, mix well.
<b>Application</b>	Cell biology, ELISA.
<b>Storage</b>	Store lyophilized protein at -20°C to -70°C. Lyophilized protein is stable for up to 6 months from date of receipt at - 20°C to -70°C. Upon reconstitution, this protein can be stored at -20°C for up to a few weeks or at -70°C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freeze / thaw cycles.

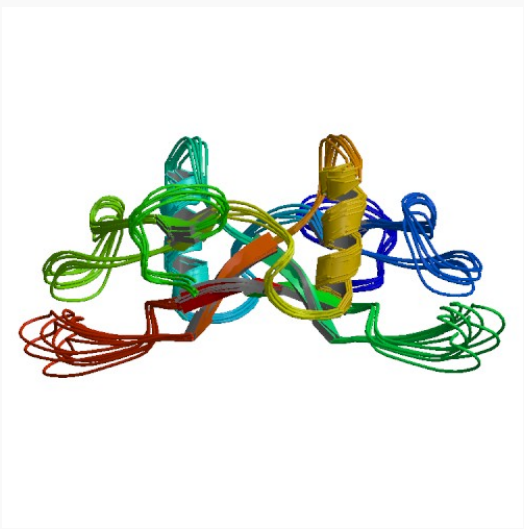
## GENE INFORMATION

<b>Gene Name</b>	TGFB1 transforming growth factor, beta 1 [ Homo sapiens ]
<b>Synonyms</b>	TGFB1; transforming growth factor, beta 1; CED; LAP; DPD1; TGFB; TGFbeta; TGF-beta 1 protein; latency-associated peptide; Camurati-Engelmann disease; Transforming growth factor beta-1; TGF-beta-1; Latency-associated peptide; LAP
<b>Gene ID</b>	7040
<b>mRNA Refseq</b>	NM_000660
<b>Protein Refseq</b>	NP_000651

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<b>MIM</b>	190180
<b>UniProt ID</b>	P01137
<b>Chromosome Location</b>	19q13.1
<b>Pathway</b>	Cell cycle; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; TGF-beta signaling pathway; Hemostasis; Influenza Infection; Signaling by TGF beta
<b>Function</b>	growth factor activity; protein N-terminus binding; protein heterodimerization activity; protein homodimerization activity; transcription activator activity; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding
<b>PDB rendering based on 1kla.</b>	

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