

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

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

SPECIFICATION

Product Overview	Recombinant Human transforming growth factor, beta 1 encoding the human LAP/Prepro-transforming growth factor-beta 1 (Leu ³⁰ -Arg ²⁷⁸) 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.
Species	Human
Source	E.coli
Protein Length	30-278 a.a.
Description	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.
Sequence	Human LAP/Prepro-transforming growth factor-beta 1 (Leu ³⁰ -Arg ²⁷⁸).LSTCKTIDME L VKRKRIEAI RGQILSKLRL ASPPSQGEVP PGPLPEAVLA LYNSTRDRVA GESAEPE PEP EADYYAKEVT RVL MVETHNE IYDKFKQSTH SIYMFNTSE LREAVPEPVL LS RAELRLLR LKLKVEQHVE LYQKYSNNSW RYLSNRLLAP SDSPEWLSFD VTGVVR QWLS RGGEIEGFRL SAHCSCDSRD NTLQVDINGF TTGRRGLAT IHGMNRPFL L MATPLERAQ HLQSSRHRR.

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Purity	>95% in SDS gel.
Formulation	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.
Reconstitution	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.
Application	Cell biology, ELISA.
Storage	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

Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens]
Synonyms	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
Gene ID	7040
mRNA Refseq	NM_000660
Protein Refseq	NP_000651

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MIM	190180
UniProt ID	P01137
Chromosome Location	19q13.1
Pathway	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
Function	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
PDB rendering based on 1kla.	