

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

Cat. No. TGFB1-119H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGF- β 1 (177-391 a.a.) produced in <i>E. coli</i> purified by standard chromatographic techniques and shows a 51 kDa band on SDS-PAGE (including GST tag).
Species	Human
Source	<i>E. coli</i>
Description	Transforming growth factor betas (TGF Betas) mediate many cell-cell interactions that occur during embryonic development. Three TGF Betas have been identified in mammals. TGF Beta 1, TGF Beta 2 and TGF Beta 3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule.
Physical Appearance	Sterile Filtered solution at a concentration of 0.1 mg/ml.
Purity	Greater than 80.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein solution contains 50mM Tris-Acetate, pH-7.5, 1mM EDTA and 20% Glycerol.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Leu-Asp-Thr-Asn.

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Storage

TGF-beta 1 although stable at 4°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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

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;

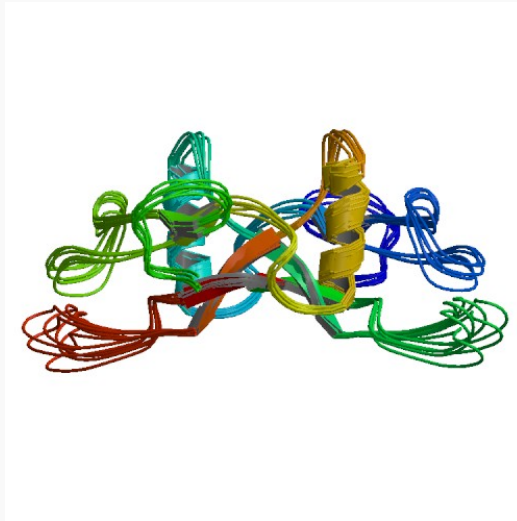
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protein homodimerization activity; transcription activator activity; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding

PDB rendering based
on 1kla.



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