

Recombinant Human TGFB1 Protein (AA 30-390), N-His-Tagged

Cat. No. TGFB1-73H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human TGFB1 Protein (AA 30-390) with N-His tag was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

AA 30-390

Description

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.

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Form	Liquid
AA Sequence	MELVKKRKRIEAIKRGQILSKLRLASPPSQGEVPPGPLPEAVLALYNSTRDRVAGESAEP EPEPEADYYAKEVTRVLMVETHNEIYDKFKQSTHSIYMFNTSELREAVPEPVLLSRA ELRLLRLKLVKVEQHVELYQKYSNNSWRYLSNRLAPSDSPEWLSFDVTGVVRQWLS RGGEIEGFRLSAHCSCDSRDNTLQVDINGFTTGRRGDLATIHGMNRPFLLLMATPLE RAQHLQSSRHRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANF CLGPCPYIWSLDTQYSKVLALYNQHNP GASAAPCCVPQALEPLPIVYYVGRKPKVE QLSNMIVRSCKCS
Purity	> 95% as determined by SDS-PAGE
Storage	Stored and shipped at -80 centigrade
Storage Buffer	PBS, pH 7.4
GENE INFORMATION	
Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; DPD1, TGFB; transforming growth factor beta-1; Camurati Engelmann disease; CED; TGFbeta; TGF-beta-1; TGF-beta 1 protein; latency-associated peptide; LAP; DPD1; TGFB
Gene ID	7040
mRNA Refseq	NM_000660
Protein Refseq	NP_000651

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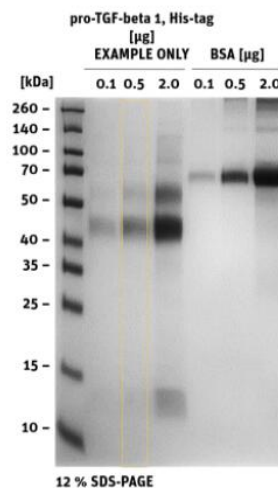
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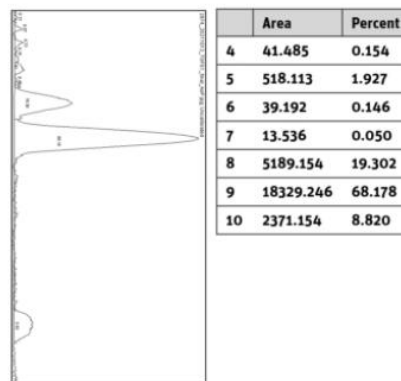
MIM 190180

UniProt ID P01137

SDS-PAGE



Histogram of marked lane in gel picture



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