

Recombinant Human TGFB1 Protein, Leu30-Arg278, C33S, N-His-Avi tagged, Biotinylated

Cat. No. TGFB1-158H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human LAP (TGF beta 1)-N-His-Avi protein was developed from HEK293 and has a target region of N-His-Avi.

Species

Human

Source

HEK293

ProteinLength

Leu30-Arg278, C33S

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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Conjugation/Label	Biotin
Form	Lyophilised
Endotoxin	Endotoxin level was found to be less than 0.1 ng/μg (1 EU/μg).
Notes	FOR RESEARCH USE ONLY (RUO).
Storage	The lyophilized protein is stable for at least 1 year from date of receipt at -20 centigrade.
Storage Buffer	Lyophilised from 0.2 μm filtered PBS solution pH 7.4. Upon receipt centrifuge vial to ensure maximal product extraction, recommended: 20 sec, 5K RPM
Conjugation	Biotin

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens (human)]
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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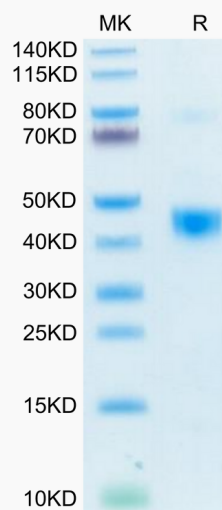
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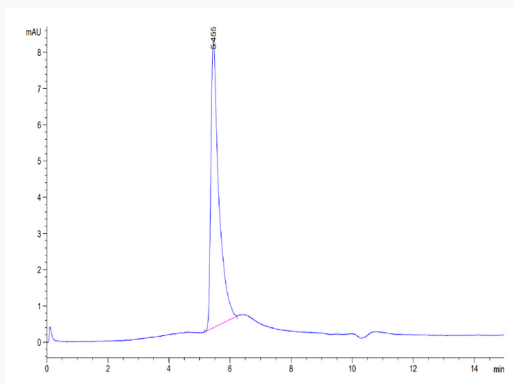
MIM 190180

UniProt ID P01137

**Biotinylated Human
LAP (TGF beta 1) on
Tris-Bis PAGE under
reduced condition.
The purity is greater
than 95%.**



**The purity of
Biotinylated Human
LAP (TGF beta 1) is
greater than 95% as
determined by SEC-
HPLC.**



**Immobilized
Biotinylated Human
LAP (TGF beta 1),**

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His Tag at 0.5 µg/mL
(100 µL/Well) on the
plate. Dose response
curve for Human
TGF-beta RII, hFc
Tag with the EC50 of
23.8 ng/mL
determined by
ELISA.

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