

Recombinant Human TGFB1 Protein, Mature chain, Tag Free, Biotinylated

Cat. No. TGFB1-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant-Biotinylated Human TGF Beta-1 protein was developed from HEK293.
Species	Human
Source	HEK293
ProteinLength	Mature chain
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.
Conjugation/Label	Biotin

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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	Upon reconstitution, this cytokine can be stored in working aliquots at 2 to 8 centigrade for one month, or at -20 centigrade for six months. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilised from 0.2 μm filtered PBS solution pH 7.4.
Reconstitution	Upon receipt a quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
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

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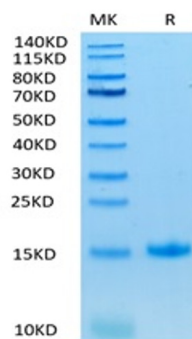
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_000651

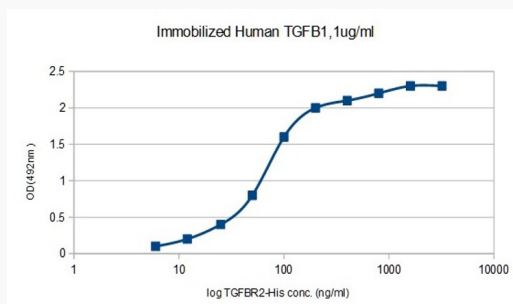
MIM 190180

UniProt ID P01137

1 µg loaded Tris-Bis
PAGE under
reducing condition.
The purity is greater
than 95%.



**Immobilized
Biotinylated Human
TGF Beta 1 at 1
µg/mL (100 µL/Well).
Response curve for
TGFR2 with a linear
range of 2-100 ng/mL
was determined by
ELISA**



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