

Recombinant Human TGFB1 protein, His-tagged, Biotinylated

Cat. No. TGFB1-362H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated recombinant Human TGFB1 protein (Met1-Ser390) was fused to His-tag at the C-terminus and expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	370
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.
Predicted N Terminal	Leu30 & Ala279

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Form	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human latent TGFβ1 consists of 370 amino acids and predicts a molecular mass of 42.4 kDa.
Endotoxin	<1.0 EU per µg of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20 centigrade to -80 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	TGFB1
Official Symbol	TGFB1

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Synonyms	CED; LAP; DPD1; TGFB; IBDIMDE; TGFbeta; TGF-beta1
Gene ID	7040
mRNA Refseq	NM_000660.7
Protein Refseq	NP_000651.3
MIM	190180
UniProt ID	P01137
SDS-PAGE of TGFB1-362H	