

Recombinant Human TGFB1 Protein

Cat. No. TGFB1-528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFB1 protein
Species	Human
ProteinLength	390
Description	<p>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.</p>
Form	Lyophilized
AA Sequence	<p>MPPSGLRLLLLLLPLLWLLVLTTPGRPAAGLSTCKTIDMELVKRKRIEAIKQILSKLRLA SPPSQGEVPPGPLPEAVLALYNSTRDRVAGESAEPEPEPEADYYAKEVTRVLMVET</p>

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HNEIYDKFKQSTHSIYMFFNTSELREAVPEPVLLSRAELRLLRLKLVKVEQHVELYQKY
 SNNSWRYLSNRLLAPSDSPEWLSFDVTGVVRQWLSRGGEIEGFRLSAHCSCDSRD
 NTLQVDINGFTTGRRGDLATIHGMNRPFLLMATPLERAQHLQSSRHRRALDTNYCF
 SSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLAL
 YNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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

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protein; latency-associated peptide; LAP; DPD1; TGFB;

Gene ID 7040

mRNA Refseq NM_000660

Protein Refseq NP_000651

MIM 190180

UniProt ID P01137

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