Active GMP Recombinant Human TGFB1 Protein

Cat. No. TGFB1-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TGFB1 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
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.
Form	Lyophilized powder
Endotoxin	<20 EU/mg

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Bio-activity	>2.0 x 10^7 IU/mg
Purity	>98.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4℃ for 7-10 days; for long-term storage, please store at -20℃ after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhTGFB1 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 μg/ml, pending further dilution to working concentration.

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor beta 1 [Homo sapiens (human)]
Official Symbol	TGFB1
Synonyms	CED; LAP; DPD1; TGFB; IBDIMDE; TGFbeta; TGF-beta1
Gene ID	7040
mRNA Refseq	NM_000660.7
Protein Refseq	NP_000651.3
UniProt ID	P01137

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