Active Recombinant Human TGFB1 Protein (Ala279-Ser390), C-His tagged, Animal-free, Carrier-free

Cat. No. TGFB1-286H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB1 Protein (Ala279-Ser390) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala279-Ser390
Description	The transforming Growth Factors beta (TGF beta) family of cytokines are ubiquitous, multifunctional, and essential to survival. They play the central roles in growth, development, inflammation, repair, and host immunity. The mammalian TGF beta isoforms (TGF beta 1, beta 2 and beta 3) are secreted as potential precursors and possess a variety of cell surface receptors and produces at least two mediate signal transductions.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit the IL-4 dependent proliferation in HT-2 cells. The ED50 for this effect is < 0.1 ng/mL. The specific activity of recombinant human TGF beat 1 is approximately >5 × 10^7 IU/mg. Measure by its ability to induce proliferation in MCF-7 cells The ED50 for this effect is < 3.2 ng/mL.

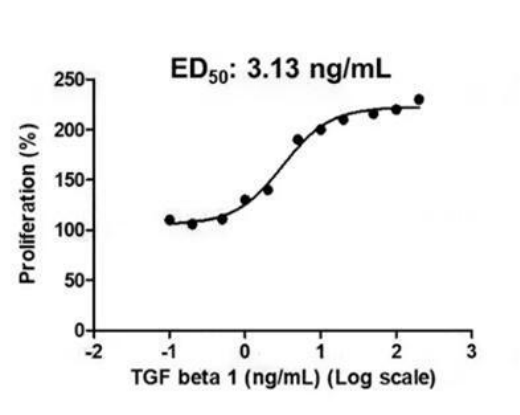
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Molecular Mass	The protein has a calculated MW of 13.7 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. In some experiments, it recommends to add 10 mM HCl when reconstitute lyophilized protein.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

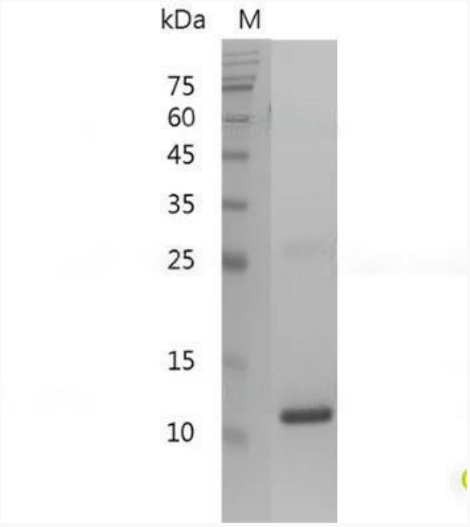
Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens (human)]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; DPD1, TGFB; transforming growth factor beta-1; Camurati Engelmann disease; CED; TGFbeta; TGF-beta-1; TGF-beta 1

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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
Activity	 Human TGF Beta 1, His Tag, E. coli (LDG051PHE) induced MCF-7 cell proliferation, with the ED50 at 3.13 ng/mL.

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SDS-PAGE analysis of recombinant human TGF beta 1.



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