Active Recombinant Human TGFB2 Protein (Ala303-Ser414), C-His tagged, Animal-free, Carrier-free

Cat. No. TGFB2-287H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB2 Protein (Ala303-Ser414) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala303-Ser414
Description	Transforming Growth Factors beta 2 (TGFβ-2) is a 12.85 kDa member of the epidermal Growth Factors with 113 amino acid residues. TGFβ-2 is expressed from throughout the body. TGFβ-2 is a regulator of cell proliferation, differentiation, apoptosis, cell plasticity and migration, etc. TGF-β-2 also associates with various kinds of diseases, such as cancer and tissue fibrosis.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED50 for this effect is < 0.2 ng/mL. The specific activity of recombinant human TGF beta 2 is > 5×10^6 IU/mg.
Molecular Mass	The protein has a calculated MW of 13.66 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

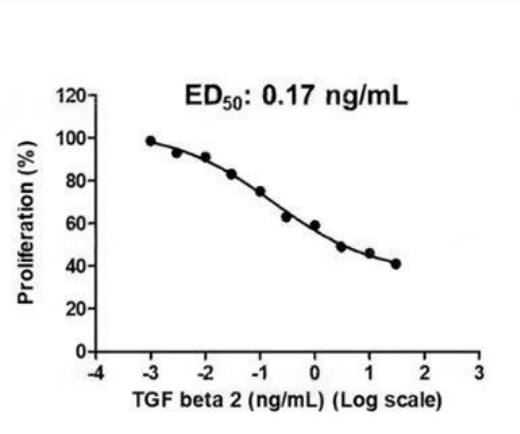
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Endotoxin	< 0.01 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 2 weeks 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 3.5.
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

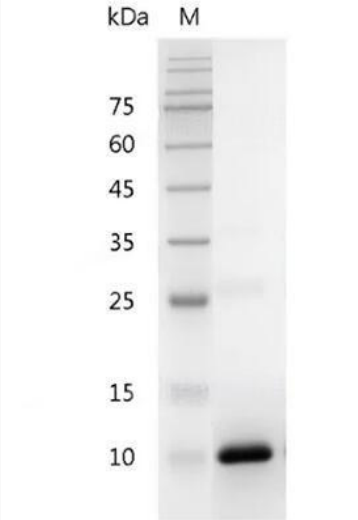
Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens (human)]
Official Symbol	TGFB2
Synonyms	TGFB2; transforming growth factor, beta 2; transforming growth factor beta-2; G-TSF; cetermin; polyergin; BSC-1 cell growth inhibitor; glioblastoma-derived T-cell suppressor factor; TGF-beta2; MGC116892;
Gene ID	7042

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mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812
Activity	 Human TGF Beta 2, His Tag, E. coli (LDG091PHE) inhibited IL-4-induced HT-2 cell proliferation, with the ED50 at 0.17 ng/mL.

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SDS-PAGE analysis of recombinant human TGF Beta 2.



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