

Active Recombinant Human TGFB3 Protein (Ala301-Ser412), C-His tagged, Animal-free, Carrier-free

Cat. No. TGFB3-288H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB3 Protein (Ala301-Ser412) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala301-Ser412
Description	Transforming Growth Factors-Beta 3 (TGF-beta 3) is belonging to the TGF-β superfamily TGF-β3 is 86%, 91% similar to TGF-β1 and TGF-β2. TGF-beta 3 is a 12.8 kDa protein containing 412 amino acids, which could inhibitor of DNA synthesis, increases cellular proliferation, essential mediator of EMT in cardiac morphogenesis, and up-regulated by milk stasis and induces apoptosis in mammary gland epithelium during involution.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED50 for this effect is < 50 pg/mL. The specific activity of recombinant human TGF Beta 3 is approximately 2×10^7 IU/mg.
Molecular Mass	The protein has a calculated MW of 13.66 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

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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 0.2 M NaCl and 20 mM sodium citrate, 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.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

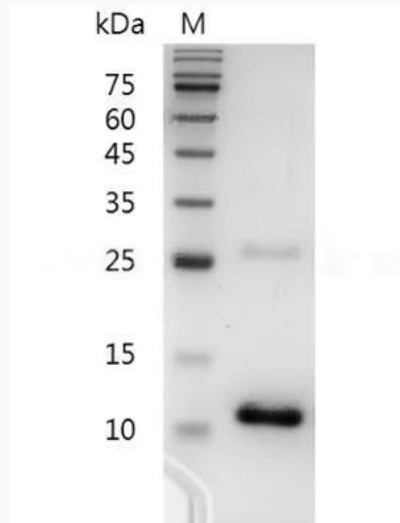
Gene Name	TGFB3 transforming growth factor, beta 3 [Homo sapiens (human)]
Official Symbol	TGFB3
Synonyms	TGFB3; transforming growth factor, beta 3; transforming growth factor beta-3; TGF-beta-3; ARVD; TGF-beta3; FLJ16571;
Gene ID	7043
mRNA Refseq	NM_003239

Protein Refseq NP_003230

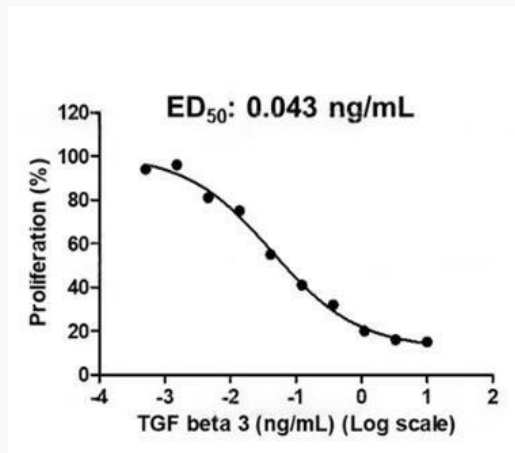
MIM 190230

UniProt ID P10600

**SDS-PAGE analysis
of recombinant
human TGF beta 3.**



Activity



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Human TGF Beta 3, His Tag, E. coli (LDG152PHE) inhibited IL-4-induced HT-2 cell proliferation, with the ED50 at 43 pg/mL.

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