

Active Recombinant Human TGFA Protein (Trp40-Ala89), C-His tagged, Animal-free, Carrier-free

Cat. No. TGFA-285H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFA Protein (Trp40-Ala89) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Trp40-Ala89
Description	Transforming Growth Factors alpha (TGF- α) is a 5.68 kDa member of the epidermal Growth Factors with 51 amino acid residues. TGF- α is mainly expressed from brain, skin, epithelial cell (pancreatic endocrine cells, urothelial cells, oligodendrocyte precursor cells, etc.). TGF- α is a regulator of cell proliferation and differentiation via bind to the EGFR and to act synergistically with TGF β . TGF- α also associates with myriad forms of cancer.
Form	Lyophilized
Bio-activity	Measure by its ability to induce 3T3 cells proliferation. The ED50 for this effect is < 0.2 ng/mL. The specific activity of recombinant human TGF alpha is > 5×10^6 IU/mg.
Molecular Mass	The protein has a calculated MW of 6.49 kDa. The protein migrates as 7 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 of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O 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	TGFA transforming growth factor alpha [Homo sapiens (human)]
Official Symbol	TGFA
Synonyms	TGFA; transforming growth factor alpha; TFGA; protransforming growth factor alpha; TGF-alpha
Gene ID	www.ncbi.nlm.nih.gov/gene/7039
mRNA Refseq	NM_003236

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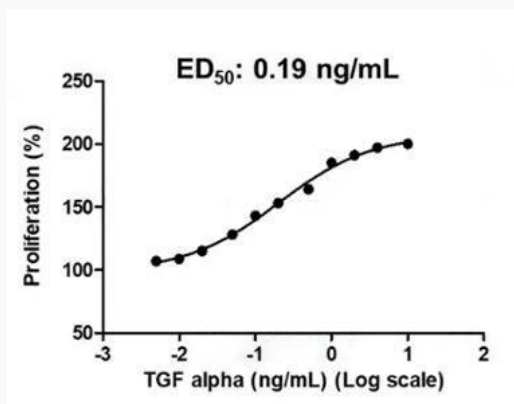
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Protein Refseq NP_003227

MIM 190170

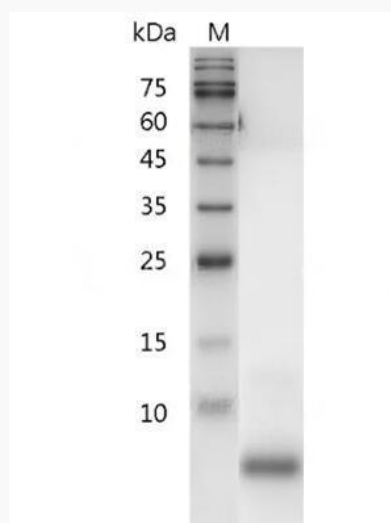
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Activity



Human TGF Alpha, His Tag, E. coli (LDG090PHE) induced 3T3 cell proliferation, with the ED₅₀ at 0.19 ng/mL.

SDS-PAGE analysis of recombinant human TGF Alpha.



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