

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

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

SPECIFICATION

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| 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

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| 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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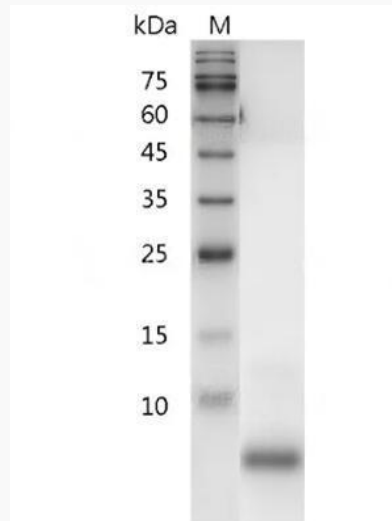
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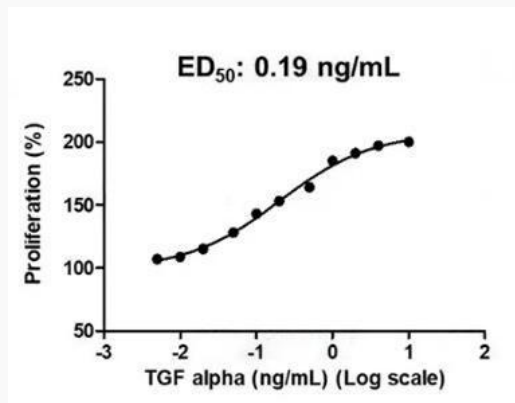
MIM 190170

UniProt ID P01135

**SDS-PAGE analysis
of recombinant
human TGF Alpha.**



Activity



Human TGF Alpha, His Tag, E. coli (LDG090PHE) induced 3T3 cell proliferation,

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with the ED50 at 0.19 ng/mL.

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