

Active Recombinant Human TGFA protein

Cat. No. TGFA-386H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TGFA protein(P01135-1) (Val40-Ala89) was expressed and purified in E.coli.
Species	Human
Source	E.coli
ProteinLength	40-89 aa
Form	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized human TGFa at 10 µg/ml (100 µl/well) can bind human EGFR-Fc. The EC50 of human EGFR-Fc is 20-60 ng/ml. 2. Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.1-0.5ng/mL.
Molecular Mass	The recombinant human TGFa consists of 50 amino acids and has a predicted molecular mass of 5.6 kDa. The apparent molecular mass of it is approximately 13 kDa in SDS-PAGE under reducing conditions.
Purity	> 90 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

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Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TGFA transforming growth factor, alpha [Homo sapiens]
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Official Symbol	TGFA
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Synonyms	TGFA; transforming growth factor, alpha; protransforming growth factor alpha; TGF-alpha; TFGA;
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Gene ID	7039
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mRNA Refseq	NM_001099691
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Protein Refseq	NP_001093161
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MIM	190170
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UniProt ID	P01135
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