

## Active Recombinant Human TGFA protein

Cat. No. TGFa-149H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TGFA protein(P01135-1)(Val40-Ala89) was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val40-Ala89
<b>Form</b>	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, pH 8.0. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	1. Measured by its binding ability in a functional ELISA. Immobilized Human TGF-alpha at 2 µg/ml (100 µl/well) can bind Human EGFR hFc, the EC50 of Human EGFR hFc is 80-500 ng/mL. 2. Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 0.5-2.5 ng/mL.
<b>Molecular Mass</b>	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.
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C

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Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**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 ]

**Official Symbol** TGFA

**Synonyms** TGFA; transforming growth factor, alpha; protransforming growth factor alpha; TGF-alpha; TFGA;

**Gene ID** 7039

**mRNA Refseq** NM\_001099691

**Protein Refseq** NP\_001093161

**MIM** 190170

**UniProt ID** P01135

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