

Active Recombinant Human TGFA protein

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

SPECIFICATION

Product Overview	Recombinant Human TGFA protein(P01135-1)(Val40-Ala89) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Val40-Ala89
Form	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.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized Human TGF- α at 2 μ g/ml (100 μ l/well) can bind Human EGFR hFc, the EC ₅₀ 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 ED ₅₀ for this effect is 0.5-2.5 ng/mL.
Molecular Mass	The recombinant human TGF α 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	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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