

TGF alpha Protein, Human, Recombinant

General Information

Synonyms:	transforming growth factor α ;transforming growth factor alpha;TGFA;TGF- α ;TFGA
Protein Construction:	A DNA sequence encoding the human TGFA (P01135-1) (Val40-Ala89) was expressed and purified. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	P01135-1
Molecular Weight:	5.6 kDa (predicted); 13 kDa (reducing conditions)

QC Testing

Biological Activity:	1.Measured by its binding ability in a functional ELISA. Immobilized Human TGF-alpha at 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) 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.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 100 mM NaCl, pH 8.0.Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The miR-137 served as a tumor suppressor in non-small cell lung cancer (NSCLC) and its suppressive effect is mediated by repressing TGFA expression. TGFA gene expression was significantly higher in tumor tissues compared to adjacent normal tissue and high TGFA gene expression strongly correlated with poor survival in

patients with lung adenocarcinoma, and miR-374a suppresses lung adenocarcinoma cell proliferation and invasion via targeting TGFA gene expression. Transforming growth factor alpha (TGFA) is a well-characterized mammalian growth factor that might contribute to the development of Cleft lip and palate (CL/P).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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