Recombinant Human TGF-alpha Protein

Catalog No.: RP01780

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Sequence Information

Species
Human

Gene ID
7039

Swiss Prot
P01135-1

Tags
No-tag

Synonyms
TFGA;TGF-alpha

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
5.55 kDa

Observed MW
10-15 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 50mM Tris，100mM NaCl，pH8.0

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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).

Basic Information

Description
Recombinant Human TGF-alpha Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Val40-Ala89) of human TGF-alpha/TGFA (Accession #NP_003227.1) fused with no tag.

Activity
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 8.895-35.58 pg/mL, corresponding to a specific activity of 2.81×10^{7}~1.12×10^{8} units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

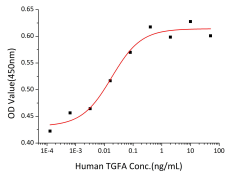
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

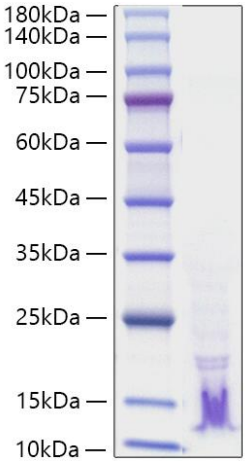
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Validation Data



Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 8.895-35.58 pg/mL, corresponding to a specific activity of 2.81×10^{7} ~1.12×10^{8} units/mg.



Recombinant Human TGF-alpha Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.