

## Human TGF Alpha, His Tag, E. coli

**Catalog Number** LDG090PHE

**Package** 5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to induce 3T3 cells proliferation. The ED<sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF alpha is > 5 x 10<sup>6</sup> IU/mg.

#### Form

Lyophilized

#### Expression System

Escherichia coli

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

#### Molecular weight

The protein has a calculated MW of 6.49 kDa. The protein migrates as 7 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

### Background

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### Background

Transforming Growth Factors alpha (TGF- $\alpha$ ) is a 5.68 kDa member of the epidermal Growth Factors with 51 amino acid residues. TGF- $\alpha$  is mainly expressed from brain, skin, epithelial cell (pancreatic endocrine cells, urothelial cells, oligodendrocyte precursor cells, etc.). TGF- $\alpha$  is a regulator of cell proliferation and differentiation via bind to the EGFR and to act synergistically with TGF  $\beta$ . TGF- $\alpha$  also associates with myriad forms of cancer.

### Uniprot ID

#P01135

### Synonyms

EGF-like TGF, ETGF, TGF type 1, Protransforming Growth Factors alpha

### Sequence Note

Trp40-Ala89

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

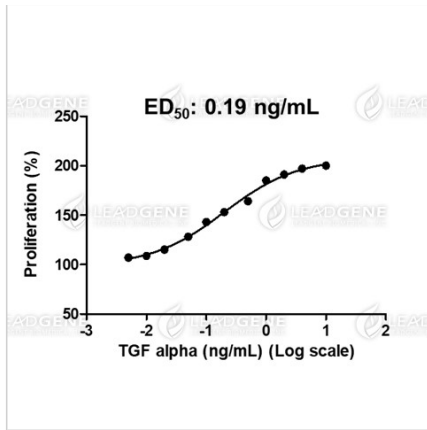
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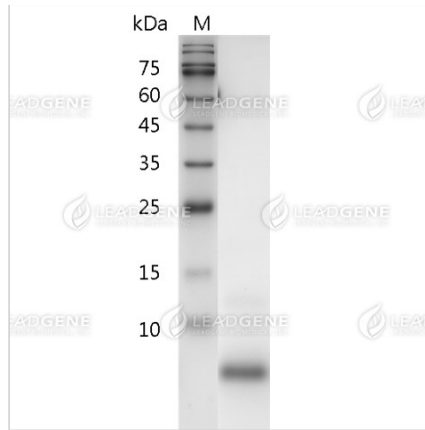
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Human TGF Alpha, His Tag, E. coli (LDG090PHE) induced 3T3 cell proliferation, with the ED50 at 0.19 ng/mL.



SDS-PAGE analysis of recombinant human TGF Alpha.

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