

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 ED₅₀ for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF alpha is > 5 x 10⁶ IU/mg.

Form

Lyophilized

Expression system

Escherichia coli

Buffer

Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.

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

Uniprot ID

P01135

Synonyms

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

Sequence Note

Val40-Ala89

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 μ 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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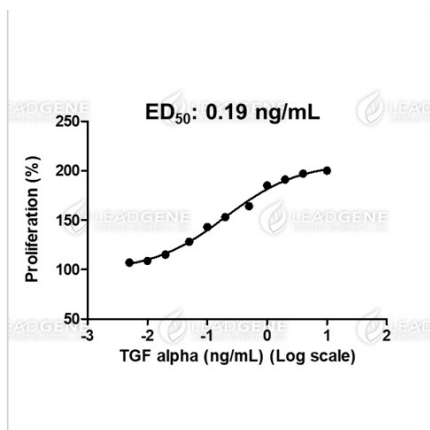
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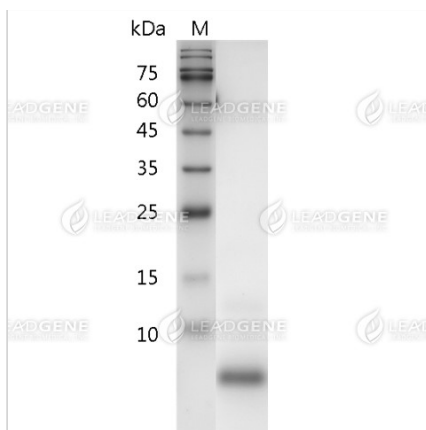
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Human TGF Alpha, His Tag, E. coli (LDG090PHE) induced 3T3 cell proliferation, with the ED50 at 0.19 ng/mL.



SDS-PAGE analysis of recombinant human TGF Alpha.

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