

## Human recombinant TGF alpha (Transforming growth factor alpha) protein, AF

Catalog Number: PROTP01135-2

### Overview

Product Name	Human recombinant TGF alpha (Transforming growth factor alpha) protein, AF
Description	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.
Size	20ug,100ug,500ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

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

### Activity

Measure by its ability to induce 3T3 cells proliferation. The ED<sub>50</sub> for this effect is 5 x 10<sup>2</sup> IU/mg.

### Endotoxin

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

### **Amino Acid Sequence**

MVVSHFNDPCDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. In some experiments, it recommends to add 10 mM HCl when reconstitute lyophilized protein. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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