

# Recombinant rat TNF-alpha protein

Catalog Number: ATGP3736

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

80-235aa

### UniProt No.

P16599

### NCBI Accession No.

NP\_036807

### Alternative Names

Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNFSF2, TNF-a, TNFA, TNF

## PRODUCT SPECIFICATION

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### Molecular Weight

19.9 kDa (181aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 range  $\leq$  0.2ng/ml.

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

Tnf also known as Tumor necrosis factor. The Protein acts as a cytokine binds TNF receptors plays a role in regulation of cell proliferation, induction of apoptosis, and inflammatory response. Recombinant rat Tnf, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

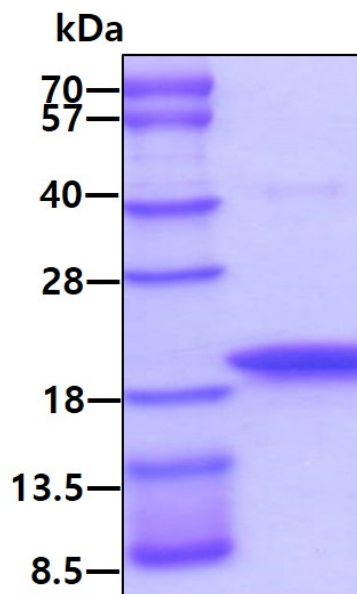
<MGSSHHHHHH SSGLVPRGSH MGSHM>LRSSS QNSSDKPVAH VVANHQAEQ LEWLSQRANA LLANGMDLKD  
NQLVVPADGL YLIYSQVLFK GQGCPDYVLL THTVSRFAIS YQEKVSLLSA IKSPCKDTP EGAELKPWYE PMYLGGVFQL  
EKGDLLSAEV NLPKYLDITE SGQVYFGVIA L

### General References

Furuya T., et al. (2001) Genes Immun. 2:229-232.  
Warle M.C., et al. (2005) Transpl. Immunol. 14:77-82.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### Biological Activity

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Rat TNF-alpha induces cell cytotoxicity in the L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D.

