

# Recombinant mouse TNF-alpha protein

Catalog Number: ATGP1475

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

80-235aa

### UniProt No.

P06804

### NCBI Accession No.

NP\_038721

### 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

17.4 kDa (157aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Tag

Non-Tagged

### Application

SDS-PAGE

### 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.

## BACKGROUND

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### Description

TNFa, also known as tumor necrosis factor, binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia.

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Recombinant mouse TNF $\alpha$  protein was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFKGQGC PDYVLLTHTV  
SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YL DFAESGQV YFGVIAL

## General References

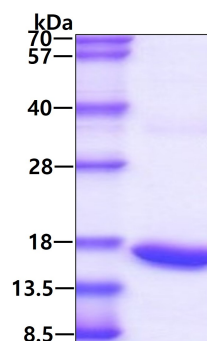
Shakhov A.N., et al. (1987) Bioorg. Khim. 13:701-705

Pennica D., et al. (1985) Proc. Natl. Acad. Sci. u.S.A. 82:6060-6064

## DATA

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### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.