

## General Information

### Gene Name Synonym

Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; Tumor necrosis factor, membrane form; N-terminal fragment; Intracellular domain 1; Intracellular domain 2; C-domain 1; C-domain 2; Tumor necrosis factor, soluble form

### Protein Construction

A DNA sequence encoding the soluble form of mouse TNF- $\alpha$  (NP\_038721.1) (Leu 80-Leu 235) was expressed, with an initial Met at the C-terminus.

### Organism

Mouse

### Expression Host

E. coli

## QC Testing

### Activity

Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The  $ED_{50}$  for this effect is typically 0.04-0.08 ng/mL.

### Purity

> 98 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Met

### Molecular Mass

The recombinant mouse TNF- $\alpha$  consists of 157 amino acids and migrates with an apparent molecular mass of 17 kDa as estimated in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 50mM Tris 0.2M NaCl, pH 7.2

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

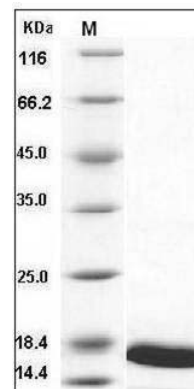
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Mouse TNF-alpha / TNFA Protein SDS-PAGE