

## 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 human TNF- $\alpha$  soluble form (NP\_000585.2) (Val 77-Leu 233) was expressed, with an initial Met at the N-terminus.

### Organism

Human

### 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<sub>50</sub> for this effect is typically 20-100 pg/ml, corresponding to a specific activity of 3 x 10E6-2 x 10E7 units/mg.

### Purity

> 95 % 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°C

### Predicted N terminal

Met

### Molecular Mass

The recombinant human TNF- $\alpha$  consists of 158 amino acids and has a predicted molecular mass of 17.4 kDa which is also estimated by SDS-PAGE.

### Formulation

Lyophilized from sterile PBS, pH 7.4

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

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

## Usage Guide

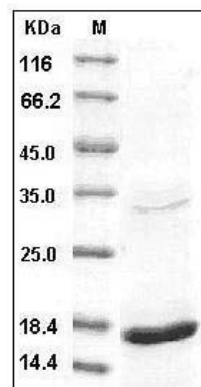
### Storage

Store it under sterile conditions at -20°C to -80°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



Human TNF-alpha / TNFA Protein SDS-PAGE