

## General Information

### Gene Name Synonym

Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a [Cleaved into: Tumor necrosis factor, membrane form; N-terminal fragment; NTF; Intracellular domain 1; ICD1; Intracellular domain 2; ICD2; 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) (Val77-Leu233) 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 specific activity of this protein is approximately  $7.6 \times 10^4$  IU/ $\mu$ g.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 10 EU per mg protein as determined by the LAL method.

### 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 human TNF- $\alpha$  consists of 158 amino acids and has a predicted molecular mass of 17.5 kDa.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

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

## Usage Guide

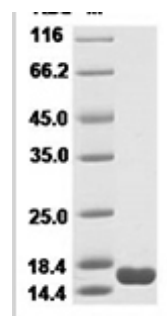
### Storage

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

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

## SDS-PAGE



Human TNF-alpha/TNFA/TNFSF2 Protein 14104