

## General Information

### Protein Construction

A DNA sequence encoding the soluble form of canine TNF $\alpha$  (NP\_001003244.4) (Val 77-Leu 233) was expressed, with an initial Met at the N-terminus.

### Organism

Canine

### Expression Host

E. coli

## QC Testing

### Activity

Measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED<sub>50</sub> for this effect is typically 0.2-1.2 ng/ml.

### Purity

> 96 % 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 canine TNF $\alpha$  consists of 158 amino acids and has a calculated molecular mass of 17.3 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

### Formulation

Lyophilized from sterile 50mM Tris, 500mM NaCl, 20% glycerol, pH 8.0

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

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

## Usage Guide

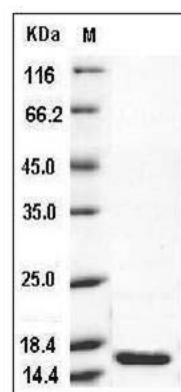
### Storage

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



Canine TNF-alpha / TNFA / TNFSF1A Protein  
SDS-PAGE