

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- α 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 ED₅₀ for this effect is typically 20-100 pg/ml, corresponding to a specific activity of 3×10^6 to 3×10^7 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- α 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

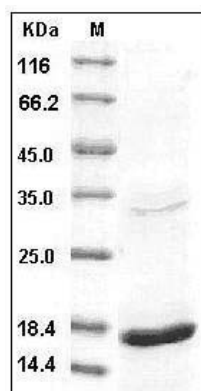
Storage

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