

Human TNFR1/CD120a/TNFRSF1A (His Tag) recombinant protein



Catalog Number: 500539

General Information

Gene Name Synonym

Tumor necrosis factor receptor 1; Tumor necrosis factor receptor type I; p55; p60; Tumor necrosis factor receptor superfamily member 1A, membrane form; Tumor necrosis factor-binding protein 1

Protein Construction

A DNA sequence encoding the human TNFR1 (NP_001056.1) extracellular domain (Met 1-Thr 211) was fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA.

Immobilized human TNFR1-His at 10 µg/mL (100 µl/well) can bind biotinylated human TNFα. The EC₅₀ of biotinylated human TNFα is 5-12 µg/mL.

2. Measured by its ability to inhibit the TNFα mediated cytotoxicity in the L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED₅₀ for this effect is typically 10-100 ng/mL in the presence of 0.25 ng/mL recombinant human TNFα.

Purity

> 92 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by

the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ile 22

Molecular Mass

The recombinant human TNFR1 consists of 201 amino acids after removal of the signal peptide and has a predicted molecular mass of 22.7 kDa. As a result of glycosylation, the apparent molecular mass of rh TNFR1 is 30-35 kDa in SDS-PAGE under reducing conditions.

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

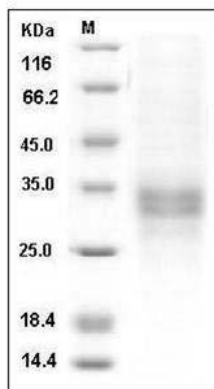
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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