

# Rat TNFR1/CD120a/TNFRSF1A (Fc Tag) recombinant protein



Catalog Number: 500023

## General Information

### Gene Name Synonym

Tumor necrosis factor receptor 1; Tumor necrosis factor receptor type I; p55; p60

### Protein Construction

A DNA sequence encoding the rat TNFRSF1A (P22934) (Met1-Ala211) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to inhibit the TNF $\alpha$  mediated cytotoxicity in the L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED<sub>50</sub> for this effect is typically 3-30 ng/mL in the presence of 0.05 ng/mL of ratTNF $\alpha$ .

2. Immobilized mouse TNFa (80-235) (Cat:500439 ) at 10  $\mu$ g/ml (100  $\mu$ l/well) can bind rat TNFRSF1A-Fc, The EC<sub>50</sub> of rat TNFRSF1A-Fc is 0.08-0.20  $\mu$ g/ml.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g 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 rat TNFRSF1A/Fc is a disulfide-linked homodimer. The reduced monomer comprises 431 amino acids and has a predicted molecular mass of 47.9 kDa. The apparent molecular mass of the protein is approximately 59 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

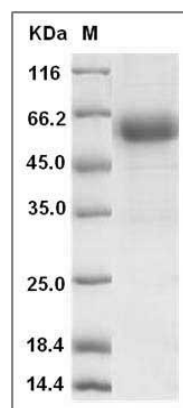
### Storage

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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Tag) SDS-PAGE