

## General Information

### Gene Name Synonym

Low affinity neurotrophin receptor p75NTR; Low-affinity nerve growth factor receptor

### Protein Construction

A DNA sequence encoding the extracellular domain of mouse NGFR (Q9Z0W1) (Met 1-Asn 243) was fused with the Fc region of human IgG1 at the C-terminus.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit NGF dependent proliferation of TF-1 human erythroleukemic cells. The ED<sub>50</sub> for this effect is typically 0.5-3 µg/mL in the presence of 2 ng/mL Recombinant mouse NGF.

### Purity

> 90 % 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

Lys 22

### Molecular Mass

The secreted recombinant mouse NGFR/Fc is a disulfide-linked homodimer. The reduced monomer comprises 463 amino acids and has a calculated molecular mass of 50.6 kDa. The apparent molecular mass of rmNGFR/Fc monomer is approximately 70-80 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### 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

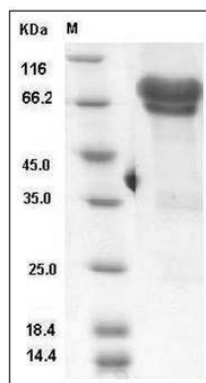
### Storage

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



Mouse NGFR / P75 Protein (Fc Tag) SDS-PAGE