

## General Information

### Protein Construction

A DNA sequence encoding the rat NTRK1 (Met1-Pro418) was expressed with a polyhistidine tag at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED<sub>50</sub> for this effect is typically 0.2-0.8 µg/mL in the presence of 10 ng/mL of recombinant mouse NGF.

### Purity

> 95 % 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

Ala 33

### Molecular Mass

The recombinant rat NTRK1 comprises 397 amino acids and predicts a molecular mass of 43.7 kDa. The apparent molecular mass of the recombinant protein is approximately 67-77 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

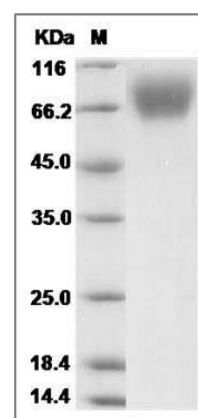
### Storage

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



Rat TrkA / NTRK1 Protein (His Tag) SDS-PAGE