

For Research Use Only

# Recombinant Human TrkB protein (rFc Tag)



Catalog Number: Eg2880

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human TrkB protein Cys32-His430 (Accession# Q16620-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

4915

**Accession:**

Q16620-1

**Predicted Molecular Mass:**

70.2 kDa

**SDS-PAGE:**

77-110 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Tropomyosin-related kinase B (TrkB) is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. It is a high-affinity neurotrophin receptor that is crucial in regulating neuronal survival, differentiation, and synaptic plasticity. TrkB is primarily localized to the cell membrane, where it functions as a receptor for neurotrophins. It is known to exist as pre-formed dimers on the cell surface, with the potential to switch between active and inactive conformations. Abnormal activation of TrkB, caused by overexpression or gene fusions, has been implicated in the initiation and progression of various types of neurogenic tumors.

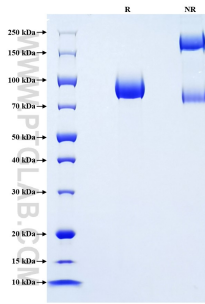
## References

- 1.Kot EF. et al. (2024). Nat Commun. 15(1):9316.
- 2.Li Y. et al. (2023). J Pathol Clin Res. 9(2):89-99.
- 3.Klein R. et al. (1991). Cell. 66(2):395-403.
- 4.Ohira K. et al. (2009). Curr Neuropharmacol. 7(4):276-285.

## Synonyms

NTRK2, TRKB, BDNF/NT-3 growth factors receptor, GP145 TrkB, GP145-TrkB

## Selected Validation Data



Purity of Recombinant Human TrkB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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