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# **Recombinant Human Trk-C/NTRK3 Protein**

Catalog No.: RP00288 Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 4916 016288

**Tags** C-hFc&His

**Synonyms** 

NTRK3;GP145-TrkC;TRKC;gp145(trkC)

# **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

71.41 kDa 110-130 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

## **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

# Contact

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# **Background**

NT-3 growth factor receptor also known as neurotrophic tyrosine kinase receptor type 3 or TrkC tyrosine kinase or Trk-C receptor, is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in TrkC encoding gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers.

### **Basic Information**

### Description

Recombinant Human Trk-C/NTRK3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Cys32-Asp428) of human TrkC/NTRK3 (Accession #NP\_001012338.1) fused with an Fc, 6×His tag at the C-terminus.

# **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human NTF3 at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant human TrkC with a linear range of 22-90 ng/mL.

# **Shipping**

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

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

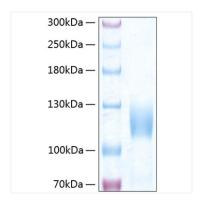
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

. Avoid repeated freeze/thaw cycles.

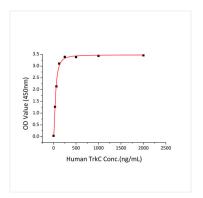
# **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**



Recombinant Human Trk-C/NTRK3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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