

Recombinant Human Trk-C/NTRK3 Protein

Catalog No.: RP00222 **Recombinant**

Sequence Information

Species Human **Gene ID** 4916 **Swiss Prot** Q16288

Tags

C-His

Synonyms

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

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 cells expression system. The target protein is expressed with sequence (Cys32-Asp428) of human TrkC/NTRK3 (Accession #NP_001012338.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human NTF3 at 2 µg/mL (100 µL/well) can bind Recombinant human TrkC with a linear range of 231-925 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°C for 3 months, at 2-8°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.

Product Information

Source

HEK293 cells

Purification

≥ 90 % as determined by SDS-PAGE.

Calculated MW

45.46 kDa

Observed MW

70-100 kDa

Endotoxin

< 0.1 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.

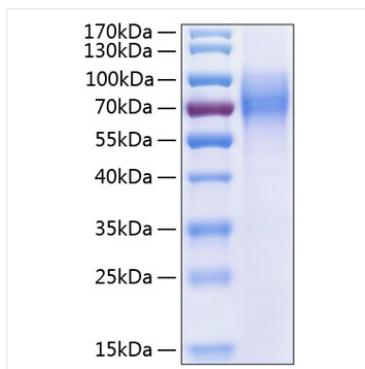
Reconstitution

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

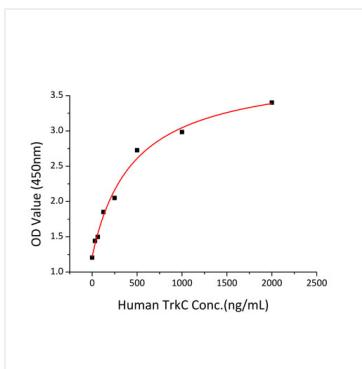
Contact

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Validation Data



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



Immobilized Recombinant Human NTF3, No Tag at 2 μ g/mL (100 μ L/well) can bind Recombinant human TrkC,His Tag with a linear range of 231-925 ng/mL.