

RP00222

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Recombinant Human Trk-C/NTRK3 Protein

Catalog No.: RP00222

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	4916	Q16288

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

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.

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.

Storage

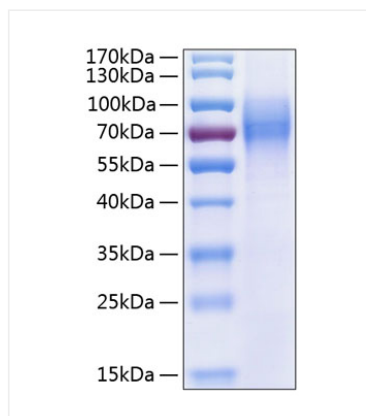
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

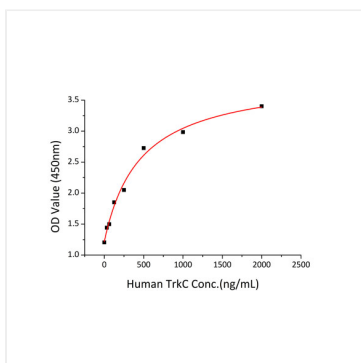


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Validation Data



Recombinant Human Trk-C/NTRK3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 80-100 kDa.



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