

Human TrkC / NTRK3 Protein, Fc Tag (MALS verified)

Catalog # TRC-H5256



Synonym

NT-3 growth factor receptor, GP145-TrkC, Neurotrophic tyrosine kinase receptor type 3, TrkC tyrosine kinase

Source

Human TrkC Protein, Fc Tag (TRC-H5256) is expressed from human 293 cells (HEK293). It contains AA Cys 32 - Thr 429 (Accession # [Q16288-1](#)). Predicted N-terminus: Cys 32

Molecular Characterization

TrkC(Cys 32 - Thr 429) Q16288-1	Fc(Pro 100 - Lys 330) P01857
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[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus.
The protein has a calculated MW of 71.2 kDa. The protein migrates as 95-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.
>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

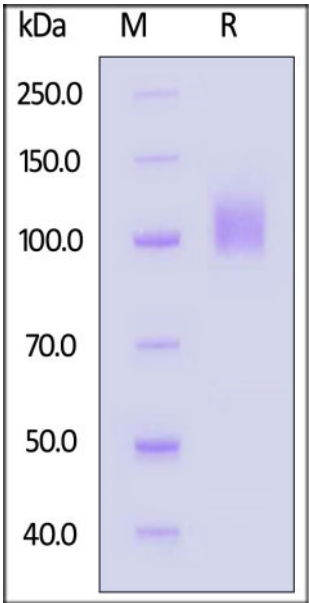
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

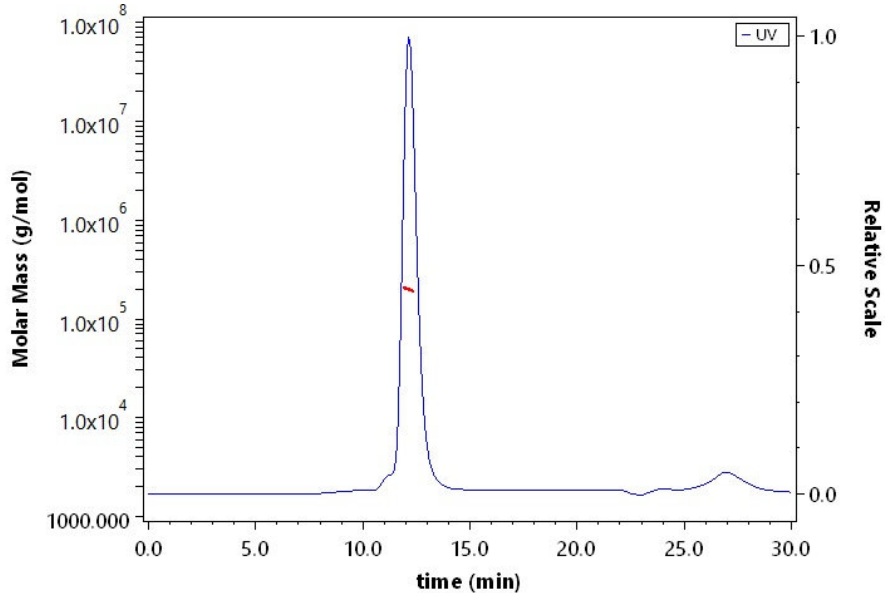
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



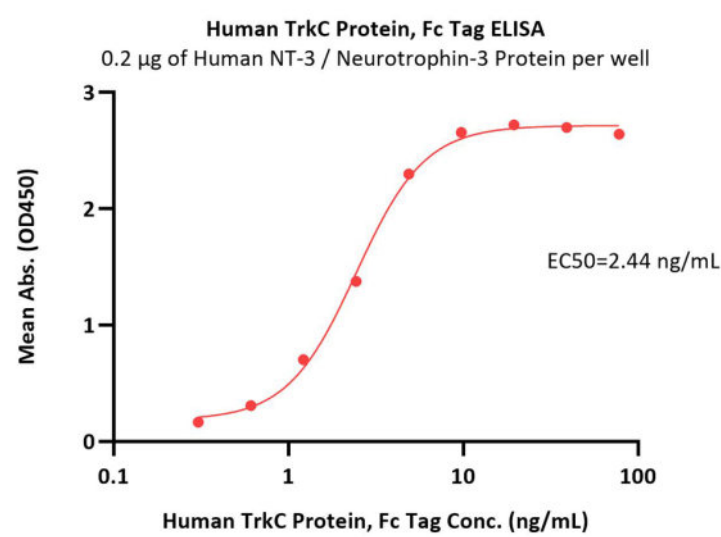
Human TrkC Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human TrkC Protein, Fc Tag (Cat. No. TRC-H5256) is more than 95% and the molecular weight of this protein is around 185-215 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human NT-3 / Neurotrophin-3 Protein at 2 µg/mL (100 µL/well) can bind Human TrkC Protein, Fc Tag (Cat. No. TRC-H5256) with a linear range of 0.3-5 ng/mL (QC tested).

Background

Tropomyosin receptor kinase C (TrkC), also known as NT-3 growth factor receptor, neurotrophic tyrosine kinase receptor type 3, or TrkC tyrosine kinase is a protein that in humans is encoded by the NTRK3 gene. It belongs to the tropomyosin-related kinase (Trk) family of receptor tyrosine kinases (TrkA, TrkB, and TrkC). TrkC is the high affinity catalytic receptor for the neurotrophin NT-3 (neurotrophin-3). As such, TrkC mediates the multiple effects of this neurotrophic factor, which includes neuronal differentiation and survival.

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