



## Synonym

NTRK2,TRKB,GP145-TrkB

## Source

Human TrkB, Fc Tag(NT2-H5254) is expressed from human 293 cells (HEK293). It contains AA Cys 32 - His 430 (Accession # [AAH31835](#)).

Predicted N-terminus: Cys 32

## Molecular Characterization

TrkB(Cys 32 - His 430) AAH31835	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 70.4 kDa. The protein migrates as 86-116 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

>98% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 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

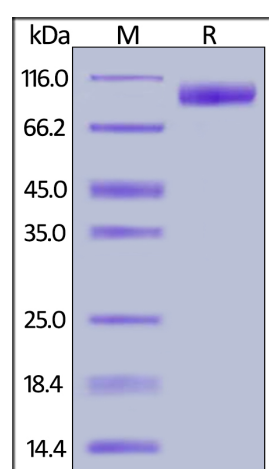
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

## SDS-PAGE

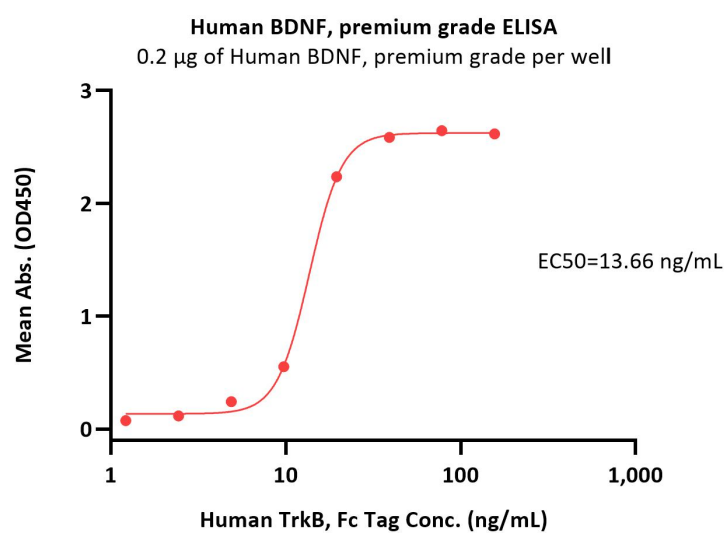


Human TrkB, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 98%.

## Bioactivity-ELISA

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Immobilized Human BDNF, premium grade (Cat. No. BDF-H5219) at 2 µg/mL (100 µL/well) can bind Human TrkB, Fc Tag (Cat. No. NT2-H5254) with a linear range of 1-20 ng/mL (Routinely tested).

## Background

Neurotrophic tyrosine kinase receptor type 2 (NTRK2) is also known as BDNF/NT-3 growth factors receptor, Tropomyosin-related kinase B (TRKB) and TrkB tyrosine kinase, which belongs to the protein kinase superfamily or Tyr protein kinase family. Insulin receptor subfamily. NTRK2 / TrkB contains two Ig-like C2-type (immunoglobulin-like) domains, two LRR (leucine-rich) repeats, one LRRCT domain, one LRRNT domain, one protein kinase domain. NTRK2 / Trk-B is expressed in the central and peripheral nervous system. The catalytic activity of NTRK2 is "ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate". NTRK2 / TrkB involved in the development and the maturation of the central and the peripheral nervous systems through regulation of neuron survival, proliferation, migration, differentiation, and synapse formation and plasticity.

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