

For Research Use Only

Recombinant Mouse TrkB protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3000

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse TrkB protein Cys32-His429 (Accession# P15209-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
18212

Accession:
P15209-1

Predicted Molecular Mass:
70.5 kDa

SDS-PAGE:
85-95 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Tropomyosin-related kinase B (TrkB) is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. It is a single-pass type 1 membrane protein consisting of three domains: an extracellular ligand binding domain, a transmembrane domain and an intracellular tyrosine kinase domain. TrkB is primarily expressed in the central and peripheral nervous systems. TrkB plays an important role in neural development and maintenance through regulating neuronal differentiation, proliferation, survival, migration, neurogenesis, and plasticity. This antibody raised against 41-433aa of human TrkB recognizes full length form (140-145 kDa) and truncated form (90-95 kDa) of TrkB (PMID: 23526925; 21039416).

References

1. Chung JY. et al. (2013). PLoS One. 8(3):e52461.
2. Cazorla M. et al. (2011). Br J Pharmacol. 162(4):947-60.

Synonyms

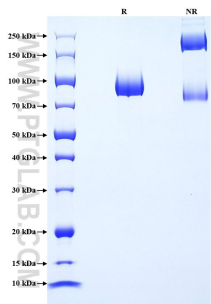
BDNF/NT-3 growth factors receptor, EC:2.7.10.1, GP145-TrkB/GP95-TrkB, Neurotrophic tyrosine kinase receptor type 2, Ntrk2

For technical support and original validation data for this product please contact

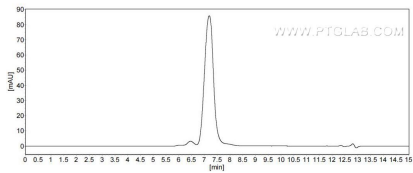
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Selected Validation Data



Purity of Recombinant Mouse TrkB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse TrkB was greater than 90% as determined by SEC-HPLC.