

Human CellExp™ NTRK2 /TRKB, human recombinant

CATALOG #: 7468-10 10 µg
7468-50 50 µg

ALTERNATE NAMES: NTRK2, TRKB, GP145-TrkB.

SOURCE: HEK 293 cells (Cys 32 – His 430)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 6xHis tag at the C-terminus, has a calculated MW of 45 kDa. The predicted N-terminus is Cys 32. DTT-reduced Protein migrates as 60-90 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in 50 mM tris, 100 mM glycine, pH 7.0. Normally Mannitol or Trehalose is added as protectants before lyophilization.

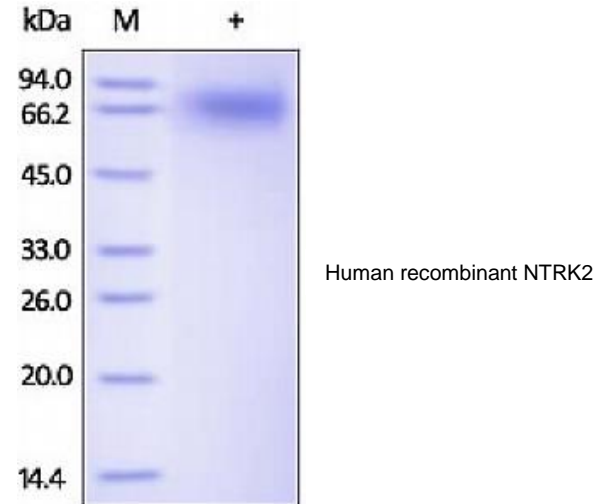
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Neurotrophic tyrosine kinase receptor type 2 (NTRK2) 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 / TrkB 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.

BIOLOGICAL ACTIVITY: Measured by its ability to bind mouse BDNF in functional ELISA.



RELATED PRODUCTS:

- BDNF Antibody (**Cat. No. 5004-100**)
- BDNF, human recombinant (**Cat. No. 4004-10, -50, -1000**)
- ProBDNF, human recombinant (**Cat. No. 4723-10, -50, -1000**)
- TrkB Antibody (**Cat. No. 3593-100**)
- BDNF (human) ELISA Kit (**Cat. No. K4788-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.