

TrkC Active Protein | NTRK3 active protein

TrkC Protein, Human, Recombinant (His & hFc Tag)

CATALOG #
AAA257821

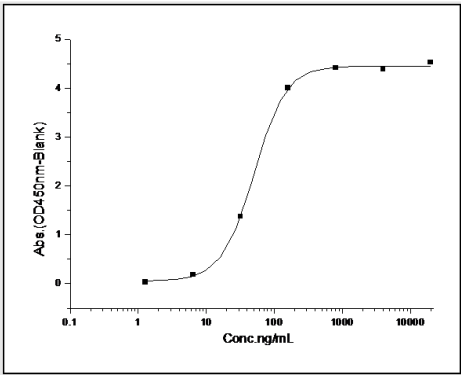
HOST
HEK293 Cells

PRODUCT SYNONYMS

TrkC; TrkC Protein; Human; Recombinant (His & hFc Tag); Human TrkC/NTRK3 Protein (His & Fc Tag); gp145(trkC) Protein; TRKC Protein; neurotrophic tyrosine kinase; receptor; type 3; NTRK3 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>98% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Asp428
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Cys 32
Tag	C-human IgG1-Fc & His
Protein Construction	A DNA sequence encoding the extracellular domain (Met1-Asp428) of human TrkC (NP_001007157.1) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Immobilized human TrkC-Fc at 10ug/ml (100uL/well) can bind biotinylated human NT3. The EC50 of biotinylated human NT3 is 23.4-54.6ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Immobilized human TrkC-Fch at 10 ug/ml (100 ul/well) can bind biotinylated human NT3, The EC50 of biotinylated human NT3 is 23.4-54.6 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for NTRK3 active protein	Background: NT-3 growth factor receptor is 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. TrkC/NTRK3 is widely expressed in the developing and adult nervous system. In later embryonic development, TrkC/NTRK3 is expressed in various structures of the CNS including the caudate-putamen, septal nuclei, cerebellum, and brainstem. Other neurotrophins include nerve growth factor(NGF), neurotrophin-3 and neurotrophin-4. In the PNS, The trkC hybridization appears to correlate, both temporally and spatially, with the outgrowth of axons toward their peripheral targets. TrkC/NTRK3 is widely expressed in the three identified branches of the mammalian nervous system and appears to correlate with the expression of NT-3, its cognate ligand. The apparent colocalization of trkC transcripts with NT-3 raises the possibility this neurotrophin exerts its trophic effects by a paracrine and/or autocrine mechanism. Signaling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in the TrkC encoding gene have been associated with medulloblastomas, secretory breast carcinomas, and other cancers.
Product Categories/Family for NTRK3 active protein	Receptor Tyrosine Kinases (RTKs) Cancer Drug Targets
References	Tessarollo L, et al. (1993) trkC, a receptor for neurotrophin-3, is widely expressed in the developing nervous system and in non-neuronal tissues. Development. 118(2): 463-75. Lamballe F, et al. (1994) Developmental expression of trkC, the neurotrophin-3 receptor, in the mammalian nervous system. J Neurosci. 14(1): 14-28. Klein R, et al. (1994) Disruption of the neurotrophin-3 receptor gene trkC eliminates la muscle afferents and results in abnormal movements. Nature. 368(6468): 249-51.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55956794
NCBI GeneID	4916
NCBI Accession #	NP_001007157.1
NCBI GenBank Nucleotide #	NM_001007156.2
UniProt Accession #	Q16288; O75682; Q12827; Q16289
Molecular Weight	839
NCBI Official Full Name	NT-3 growth factor receptor isoform c
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 3
NCBI Official Symbol	NTRK3

NCBI Official Synonym Symbols	TRKC; gp145(trkC)
NCBI Protein Information	NT-3 growth factor receptor; GP145-TrkC; ETV6-NTRK3 fusion; tyrosine kinase receptor C; ETS related protein-neurotrophic receptor tyrosine kinase fusion protein
UniProt Protein Name	NT-3 growth factor receptor
UniProt Gene Name	NTRK3
UniProt Synonym Gene Names	TRKC; Trk-C
UniProt Entry Name	NTRK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-ntrk3-active-protein/trkc/257821>