

# Recombinant Human NTRK2 Protein, His-tagged, Alexa Fluor 647 conjugated

**Cat. No.** NTRK2-157HAF647    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Alexa Fluor 647 conjugated recombinant human NTRK2 protein (Cys32-His430) was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Cys32-His430
<b>Description</b>	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.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 45.2 kDa. The protein migrates as 60-90 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>N-terminal Sequence Analysis</b>	Cys 32
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Characteristic</b>	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
<b>Conjugation</b>	Alexa Fluor 647

## GENE INFORMATION

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<b>Gene Name</b>	NTRK2
<b>Official Symbol</b>	NTRK2
<b>Synonyms</b>	OBHD; TRKB; trk-B; EIEE58; GP145-TrkB
<b>Gene ID</b>	4915
<b>mRNA Refseq</b>	NM_001007097
<b>Protein Refseq</b>	NP_001007098
<b>MIM</b>	600456
<b>UniProt ID</b>	Q16620

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