

Active Recombinant Rat NTRK2 Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. NTRK2-1095RAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 647 conjugated recombinant rat NTRK2 (Q63604-Isoform T1) (Met1-His429) was expressed with a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	409
Form	Lyophilized
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized rat NTRK2-His at 10 µg/mL (100 µL/well) can bind biotinylated mouse BDNF, The EC50 of biotinylated mouse BDNF is 12.2-28.6 ng/mL.
Molecular Mass	The recombinant rat NTRK2 comprises 409 amino acids and predicts a molecular mass of 47.1 kDa. The apparent molecular mass of the recombinant protein is approximately 67 kDa in SDS-PAGE under reducing conditions due to glycosylation.
N-terminal Sequence Analysis	Cys 32
Endotoxin	< 1.0 EU/ µg of the protein as determined by the LAL method.

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Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Stability	Samples are stable for up to 12 months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 to -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4, 5%-8% trehalose and mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 647

GENE INFORMATION

Gene Name	Ntrk2 neurotrophic tyrosine kinase, receptor, type 2 [Rattus norvegicus]
Official Symbol	NTRK2
Synonyms	NTRK2; neurotrophic tyrosine kinase, receptor, type 2; BDNF/NT-3 growth factors receptor; trk-B; GP145-TrkB/GP95-TrkB; trkB tyrosine kinase; Neural receptor protein-tyrosine kinase (trkB); Tkrb; trkB; TRKB1; RATTRKB1;
Gene ID	25054

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mRNA Refseq	NM_001163168
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Protein Refseq	NP_001156640
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