

## Active Recombinant Rat NTRK2 Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant rat NTRK2 (Q63604-Isoform T1) (Met1-His429) was expressed with a polyhistidine tag at the C-terminus.
<b>Species</b>	Rat
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-429 a.a.
<b>Predicted N Terminal</b>	Cys 32
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	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.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Purity</b>	>95 % as determined by SDS-PAGE.

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ntrk2 neurotrophic tyrosine kinase, receptor, type 2 [ Rattus norvegicus ]</a>
<b>Official Symbol</b>	<a href="#">NTRK2</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">25054</a>
<b>mRNA Refseq</b>	<a href="#">NM_001163168</a>
<b>Protein Refseq</b>	<a href="#">NP_001156640</a>
<b>MIM</b>	
<b>UniProt ID</b>	
<b>Pathway</b>	ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Frs2-mediated activation, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved

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**Function**

ATP binding; brain-derived neurotrophic factor binding; brain-derived neurotrophic factor binding; brain-derived neurotrophic factor binding; brain-derived neurotrophic factor-activated receptor activity; brain-derived neurotrophic factor-activated recept

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