Active Recombinant Rat NTRK2 Protein, His-tagged

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

SPECIFICATION

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

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Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	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℃ before opening to recover the entire contents.

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
mRNA Refseq	NM_001163168
Protein Refseq	NP_001156640
MIM	
UniProt ID	
Pathway	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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