

Recombinant Mouse Ntrk2 Protein, His-tagged

Cat. No. Ntrk2-359M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse NTRK2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Description	NTRK2, also known as BDNF/NT-3 growth factors receptor, is a member of the neurotrophic tyrosine receptor kinase family. This protein involves in the development and the maturation of the central and the peripheral nervous systems through regulation of neuron survival, proliferation, differentiation, and synapse formation and plasticity.
Source	Insect cell
Species	Mouse
Tag	His
Form	In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	45.7kDa (409aa)57-70kDa (SDS-PAGE under reducing conditions.)
AA Sequence	CPTSCKCSSA RIWCTEPSPG IVAFPRLEPN SVDPENITEI LIANQKRLEI INEDDVAYV GLRNLTIVDS GLKFVAYKAF LKNSNLRHIN FTRNKLTSLS RRHFRHLDLS DLILTGNPFT CSCDIMWLKT LQETKSSPDT QDLYCLNESS KNMPLANLQI PNCGLPSARL AAPNLTVVEEG KSVTLSCSVG GDPLPTLYWD VGNLVSKHMN ETSHTQGSLR ITNISSDDSG KQISCVAENL VGEDQDSVNL TVHFAPTITF LESPTSDHHW CIPFTVRGNP KPALQWFYNG AILNESKYIC TKIHVTNHTE YHGCLQLDNP THMNNGDYTL MAKNEYGKDE RQISAHFMGR

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	PGVDYETNPN YPEVLYEDWT TPTDIGDTTN KSNEIPSTDV ADQSNREHAA ALEHHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	Ntrk2 neurotrophic tyrosine kinase, receptor, type 2 [<i>Mus musculus</i>]
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; Tkrb; trkB; AI848316; C030027L06Rik;
Gene ID	18212
mRNA Refseq	NM_001025074
Protein Refseq	NP_001020245
MIM	
UniProt ID	

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Pathway	Activation of TRKA receptors, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; NGF signalling via TRKA from the plasma membrane, organism-specific biosystem; NGF-independant TRKA activation, organism-specific biosystem; Neurotrophin signaling pathway, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem;
Function	ATP binding; brain-derived neurotrophic factor binding; brain-derived neurotrophic factor binding; brain-derived neurotrophic factor-activated receptor activity; brain-derived neurotrophic factor-activated receptor activity; kinase activity; neurotrophin receptor activity; neurotrophin-3 binding; neurotrophin-3 binding; neurotrophin-4/5 binding; nucleotide binding; protein binding; protein homodimerization activity; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity;