

# Recombinant Mouse Neurotrophic Tyrosine Kinase, Receptor, Type 3, His-tagged

Cat. No. Ntrk3-908M Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	A DNA sequence encoding the extracellular domain of mouse TrkC (NP_032772.3) (Met 1-Thr 429) was expressed, with a C-terminal polyhistidine tag.
<b>Species</b>	Mouse
<b>Source</b>	Mouse
<b>ProteinLength</b>	1-429 a.a.
<b>Description</b>	Ntrk3 is a single-pass type I membrane protein. Ntrk3 belongs to the protein kinase superfamily and insulin receptor subfamily. Mouse Ntrk3 is a 825 amino acid (aa) protein and is widely expressed but mainly in nervous tissue. It contains two Ig-like C2-type (immunoglobulin-like) domains, one LRR (leucine-rich) repeats and one protein kinase domain. Ntrk3 is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway.
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Predicted N terminal</b>	Cys 32
<b>Molecular Mass</b>	The secreted recombinant mouse TrkC comprises 409 amino acids and has a calculated molecular mass of 46.1 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 100-110 kDa band in SDS-PAGE under reducing conditions.
<b>Storage</b>	Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ntrk3 neurotrophic tyrosine kinase, receptor, type 3 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Ntrk3</a>
<b>Synonyms</b>	Ntrk3; neurotrophic tyrosine kinase, receptor, type 3; TrkC; AW125844; NT-3 growth factor receptor; trk-C; GP145-TrkC; OTTMUSP00000023300; OTTMUSP00000023301; trkC tyrosine kinase
<b>Gene ID</b>	<a href="#">18213</a>
<b>mRNA Refseq</b>	<a href="#">NM_008746</a>
<b>Protein Refseq</b>	<a href="#">NP_032772</a>
<b>UniProt ID</b>	<a href="#">Q6VNS1</a>
<b>Chromosome</b>	7

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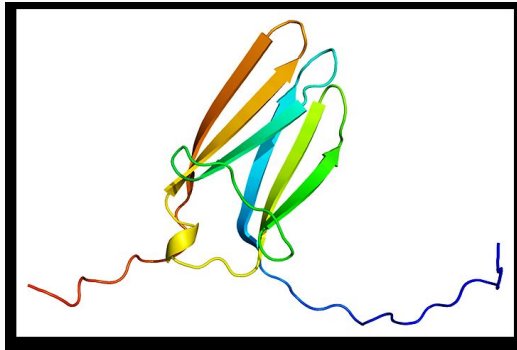
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**Location****Pathway**

Neurotrophin signaling pathway

**Function**

ATP binding; kinase activity; neurotrophin receptor activity; nucleotide binding; protein binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transferase activity, transferring phosphorus-containing groups; transmembrane receptor protein tyrosine kinase activity

**Protein Ntrk3**  
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