

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

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Mouse
ProteinLength	1-429 a.a.
Description	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.
Form	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.
Purity	> 95 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N terminal	Cys 32
Molecular Mass	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.
Storage	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

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

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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 PDB1wwc	