Recombinant Human NTRK2, Fc-tagged

Cat. No. NTRK2-31621TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 32-428 of human TrkB fused to the Fc region of human IgG1 expressed in modified human 293 cells, 90-115kDa.
Species	Human
ProteinLength	32-428 a.a.
Description	This gene encodes a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. Signalling through this kinase leads to cell differentiation. Mutations in this gene have been associated with obesity and mood disorders. Alternate transcriptional splice variants encoding different isoforms have been found for this gene.
Conjugation	Fc
Tissue specificity	Isoform TrkB is widely expressed, mainly in the nervous tissue. In the CNS, expression is observed in the cerebral cortex, hippocampus, thalamus, choroid plexus, granular layer of the cerebellum, brain stem, and spinal cord. In the peripheral nervous syst
Biological activity	NTRK2-31621TH chimera bound to protein A sepharose beads is able to pull down its ligand, BDNF.
Form	Lyophilised:It is recommended that 0.5 ml of sterile phosphate-buffered saline be

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	added to the vial.Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not reco
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Trehalose, 1% Human serum albumin
Storage	Store at +4°C.
Sequences of amino acids	Theoretical Sequence:CPTSCKCSASRIWCSDPSPGIVAFPRLEP NSVDPENITEIFIA NQKRLEIINEDDVEAYVGLRNLTI VDSGLKFVAHKAFLKNSNLQHINFTRNKLTSLSR KHFR HLDLSELILVGNPFTCSCDIMWIKTLQEAKSSPDTQDL YCLNESSKNIPLANL QIPNCGLPSANLAAPNLTVEEGKSI TLSCSVAGDPVPNMYWDVGNLVSKHMNETSH TQGSLRI TNISSDDSGKQISCVAENLVGEDQDSVNLTVHFAPTIT FLESPTSDHHWC IPFTVKGNPKPALQWFYNGAILNESK YICTKIHVTNHTEYHGCLQLDNPTHMNNGDY TLIAKNE YGKDEKQISAHFMGWPGIDDGANPNYPDVIYEDYGTAA NDIGDTTNRSN EIPSTDVTDKTGRIPKVDKKVEPKSCDKT HTCPPCPAPELLGGPSVFLFPPKPKDTL MISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNST YRVVSVL TVLHQDWLNGKEYKCKVSNKALPAPIEKTIS KAKGQPREPQVYTLPPSRDELTKNQ VSLTCLVKGFYPS DIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVD KSRW QQGNVFSCSVMHEALHNHYTQKSLSLSPGK
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily.Contains 2 Ig-like C2-type (immunoglobulin-like) domains.Contains 2 LRR (leucine-rich) repeats.Contains 1 LRRCT domain.Contains 1 LRRNT domain.Contains 1 prot

GENE INFORMATION

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Gene Name	NTRK2 neurotrophic tyrosine kinase, receptor, type 2 [Homo sapiens]
Official Symbol	NTRK2
Synonyms	NTRK2; neurotrophic tyrosine kinase, receptor, type 2; BDNF/NT-3 growth factors receptor; TRKB;
Gene ID	4915
mRNA Refseq	NM_001007097
Protein Refseq	NP_001007098
MIM	600456
Uniprot ID	Q16620
Chromosome Location	9q22.1
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;
Function	ATP binding; neurotrophin binding; nucleotide binding; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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