

Recombinant Human NTRK1, Fc-tagged

Cat. No. NTRK1-31619TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 33-405 of Human TrkA fused to the Fc region of human IgG1 expressed in modified human 293 cells.
Species	Human
ProteinLength	33-405 a.a.
Description	This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date.
Conjugation	Fc
Tissue specificity	Isoform TrkA-II is primarily expressed in neuronal cells; isoform TrkA-I is found in non-neuronal tissues.
Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin
Storage	Shipped at 4°C. After reconstitution store at -20oC. Avoid freeze / thaw cycles.
Sequences of amino acids	Theoretical sequence:AAPCPDACC PHGSSGLRCTR DGALDSLHH LPG AENL TELYI ENQQHLQHLELRDLRGLGELRNLTIV KSG LRFVAPDAFHFT PRLSRLNLSFNALES L SWKTVQG LSLQELVLSGNPLHCSCALRWLQRWEE EGLGGVPEQKL QCHGQGPL AHMPNASC GVP TLKVQVPNASVDVGDDVLLRC QVEGRGLEQAGWILTELEQSATV MKSGGLPSLGLTLAN VTSDLNRKNVTCWAENDVGRAEVS VQVNVSF PASVQLH TA VEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETS FIF TEFLEPAANETVRHGCLRLN QPTHVNNGN YTLAANPF GQASASIMAAFM DNPFEFNPEDPIPVSFSPVD TNSTSE IPKVDKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP KDTLMISRTPEVTCVVV DVSHEDPEVKFNWYVDGVEVH NAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE YKCRV SNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKN QVSLTCLVKGFYPS DIAVEWESNGQPENNYKTTTPVLD SDGSFFLYSKLTVDKSRWQQGNV FSCSVMHE ALHNHYT QKSLSLSPGK
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 protein kinase domain.
GENE INFORMATION	
Gene Name	NTRK1 neurotrophic tyrosine kinase, receptor, type 1 [Homo sapiens]
Official Symbol	NTRK1
Synonyms	NTRK1; neurotrophic tyrosine kinase, receptor, type 1; high affinity nerve growth factor receptor; MTC; TRK; TRKA;
Gene ID	4914

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mRNA Refseq	NM_001007792
Protein Refseq	NP_001007793
MIM	191315
Uniprot ID	P04629
Chromosome Location	1q21-q22
Pathway	ARMS-mediated activation, organism-specific biosystem; Activation of TRKA receptors, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Endocytosis, organism-specific biosystem;
Function	ATP binding; neurotrophin binding; nucleotide binding; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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