

Recombinant Human NTRK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NTRK1-1225H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NTRK1 MS Standard C13 and N15-labeled recombinant protein (NP_001012331) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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, cognitive disability and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date.
Molecular Mass	86.7 kDa
AA Sequence	MLRGGRRGQLGWHSWAAGPGSLLAWLILASAGAAPCPDACCPHGSSGLRCTR DG ALDSLHHLPGAENLT ELYENQQHLQHLELRDLRGLGELRNLTIVKSGLR FVAPDAFH FTPRLSRLNLSFNALESLSWKT VQGLSLQELVLSGNPLHCSCALRWLQRWEE EGLG GVPEQKLQCHGQGPLAHMPNASC GVPTLKVQVPNASVDVGDDVLLRCQVEGRGL EQAGWILTELEQSATVMKSGGLPSLGLTLANVTSDLNRKNLTCWAENDVGRAE VSV

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QVNVSPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEP
 AANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQASASIMAAFMDNPFEPNPEDPI
 PDTNSTSGDPVEKKDETPFGVSVAVGLAVFACLFLSTLLLVLNKCGRRNKFGINRPA
 VLAPEDGLAMSLHFMTLGGSSLSPTEGKGSGLQGHIENPQYFSDACVHHIKRRDIV
 LKWELGEGAFGKVFLAECHNLLPEQDKMLVAVKALKEASESARQDFQREAELLTML
 QHQHIVRFFGVCTEGRPLLMVFEYMRHGDNLNRFLRSHGPDALLAGGEDVAPGPL
 GLGQLLAVASQVAAGMVYLAGLHFVHRDLATRNLVGGQLVVKIGDFGMSRDIYST
 DYYRVGGRTMLPIRWMPPESILYRKFTTESDVWSFGVVLWEIFTYQKQPWYQLSNT
 EAIDCITQGRELERPRACPPEVYAIMRGCWQREPQQRHSIKDVHARLQALAQAPPV
 YLDVLGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NTRK1 neurotrophic receptor tyrosine kinase 1 [Homo sapiens (human)]

Official Symbol NTRK1

Synonyms NTRK1; neurotrophic tyrosine kinase, receptor, type 1; high affinity nerve growth factor receptor; MTC; TRK; TRKA; gp140trk; Oncogene TRK; tyrosine kinase receptor A; tropomyosin-related kinase A; TRK1-transforming tyrosine kinase protein; TRK1;

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Trk-A; p140-TrkA; DKFZp781I14186;

Gene ID [4914](#)

mRNA Refseq [NM_001012331](#)

Protein Refseq [NP_001012331](#)

MIM [191315](#)

UniProt ID [P04629](#)

SDS-PAGE



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