

Active Recombinant Human NTRK1 Protein (34-407), Animal free

Cat. No. NTRK1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human NTRK1 Protein (34-407) without tag was expressed in HEK293. Animal free
Species	Human
Source	HEK293
ProteinLength	34-407
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.
Form	Lyophilized
Bio-activity	Fully biologically active determined by its ability to inhibit NGF-beta dependent proliferation of TF-1 cells. ED50 is ≤ 242.2 ng/mL, corresponding to a specific activity of 4.13×10^3 units/mg.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	41 kDa
AA Sequence	APCPDACCPHGSSGLRCTR DGALDSLHHLPGAENLT ELYIENQQHLQHLELRDLRG LGELRNLTIVKSGLRFVAPDAFHFT PRLSRLNLSFNAESLSWKTVQGLSLQELVLSG NPLHCSCALRWLQRWEEEG LGGVPEQKLQCHGQGPLAHMPNASC GVPTLKVQVP NASVDVGDDVLLRCQVEGRGLEQAGWILTELEQSATVMKSGGLPSLGLTLANVTSD LNRKNVTCWAENDVGRAEVSQVNVSF PASVQLHTAVEMHHWCIPFSVDGQPAPS LRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQ ASASIMAAFM DNPFEFNPEDPIPVSFSPVD TNSTSGDP
Endotoxin	<= 0.005 Eu/μg
Purity	>= 95% HPLC
Applications	MS, HPLC, SDS-PAGE, Functional Studies
Notes	This product is an active protein and may elicit a biological response in vivo, handle with caution.
Storage	Store at Room Temperature.
Storage Buffer	0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate, 10.26% Trehalose, pH: 7.40
Reconstitution	Lyophilized contents may appear as either a translucent film or a white powder. This variance does not affect the quality of the product. Store lyophilized form at room temperature. Reconstitute in phosphate buffered saline, aliquot and store at -80 centigrade for 12 months or 4 centigrade for 1 week. Avoid repeated freeze-thaw.
Shipping	Shipped at Room Temperature.

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GENE INFORMATION

Gene Name	NTRK1 neurotrophic receptor tyrosine kinase 1 [Homo sapiens (human)]
Official Symbol	NTRK1
Synonyms	NTRK1; neurotrophic receptor tyrosine kinase 1; MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA; high affinity nerve growth factor receptor; Oncogene TRK; TRK1-transforming tyrosine kinase protein; gp140trk; neurotrophic tyrosine kinase, receptor, type 1; tropomyosin receptor kinase A; tropomyosin-related kinase A; tyrosine kinase receptor A; EC 2.7.10.1
Gene ID	4914
mRNA Refseq	NM_002529
Protein Refseq	NP_002520
MIM	191315
UniProt ID	P04629

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