

# 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  $\leq 242.2$  ng/mL, corresponding to a specific activity of  $4.13 \times 10^3$  units/mg.

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 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Molecular Mass</b>	41 kDa
<b>AA Sequence</b>	<p>APCPDACCPHGSSGLRCTR DGALDSLHHLPGAENLTELYIENQQHLQHLELRDLRG            LGELRNLTIVKSGLRFVAPDAFHFTPRLSRLNLSFNAESLSWKT VQGLSLQELVLSG            NPLHCSCALRWLQRWEEEG LGGVPEQKLQCHGQGPLAHMPNASCGVPTLKVQVP            NASVDVGDDVLLRCQVEGRGLEQAGWILTELEQSATVMKSGGLPSLGLTLANVTSD            LNRKNVTCWAENDVGRAEVSQVNVSF PASVQLHTAVEMHHWCIPFSVDGQPAPS            LRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTHVNNNGNYTLAANPFGQ            ASASIMAAFMDNPFEPEDPIPVSFSPVDTNSTSGDP</p>
<b>Endotoxin</b>	<= 0.005 Eu/μg
<b>Purity</b>	>= 95% HPLC
<b>Applications</b>	MS, HPLC, SDS-PAGE, Functional Studies
<b>Notes</b>	This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Storage</b>	Store at Room Temperature.
<b>Storage Buffer</b>	0.727% Dibasic monohydrogen potassium phosphate, 0.248% Monobasic dihydrogen potassium phosphate, 10.26% Trehalose, pH: 7.40
<b>Reconstitution</b>	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.
<b>Shipping</b>	Shipped at Room Temperature.

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## GENE INFORMATION

<b>Gene Name</b>	NTRK1 neurotrophic receptor tyrosine kinase 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	NTRK1
<b>Synonyms</b>	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
<b>Gene ID</b>	4914
<b>mRNA Refseq</b>	NM_002529
<b>Protein Refseq</b>	NP_002520
<b>MIM</b>	191315
<b>UniProt ID</b>	P04629

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