

## Recombinant Human NTRK3

**Cat. No.** NTRK3-31623TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment, extracellular region corresponding to amino acids 32-428 of Human TrkC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Length</b>     | 32-428 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>        | 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 and may play a role in the development of proprioceptive neurons that sense body position. Mutations in this gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers. Several transcript variants encoding different isoforms have been found for this gene. |
| <b>Tissue specificity</b> | Widely expressed but mainly in nervous tissue. Isoform B is expressed at higher levels in adult brain than in fetal brain.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>               | Lyophilised: Reconstitution: It is recommended that 0.5 ml of sterile phosphate-buffered saline be 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/thaw                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>             | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

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

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

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | Preservative: None<br>Constituents: 10% Trehalose, 1% Human serum albumin, PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>                  | Store at +4°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sequences of amino acids</b> | <p>Theoretical Sequence: CPANCVCSKTEINCRRPDDGNLFPLLEGQ DSGNSNGNANIN<br/> ITDISRNITSIHENWRS�HTLNAVD MELYTGLQKLTIKNSGLRSIQPRAFAKNPHLRYI<br/> NLSSNR LTTLSWQLFQTLSTRELQLEQNFFNCSCDIRWMQLWQE QGEAKLNSQNL<br/> YCINADGSQPLFRMNISQCDLPEISVSH VNLTVREGDNAVITCNGSGSPLPDVDWI<br/> VTGLQSINTH QTNLNWTNVHAINLTLVNVTSEDNGFTLTCAENVVGM SNASVALTV<br/> YYPPRVVSLEPELRLEHCIEFVVRGNPPPT LHWLHNGQPLRESKIIHVEYYQEGEI<br/> SEGCLLFNKPTH YNNGNYTLIAKNPLGTANQTINGHFLKEPFPESTDNFILFDEVSP<br/> PPITVTHKPEEDGSSNTKVDKKVEPKSCDKTH TCPPCPAPELLGGPSVFLFPKPK<br/> DTLMISRTPEVTCV VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV V<br/> SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAK GQPREPQVYTLPPSRDELTK<br/> NQVSLTCLVKGFYPSDIA VEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSR<br/> WQ QGNVFSCSVMEALHNHYTQKSLSLSPGK</p> |
| <b>Sequence Similarities</b>    | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>                | <b>NTRK3 neurotrophic tyrosine kinase, receptor, type 3 [ Homo sapiens ]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>          | <b>NTRK3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>                 | NTRK3; neurotrophic tyrosine kinase, receptor, type 3; NT-3 growth factor receptor; TRKC;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene ID</b>                  | <b>4916</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

 Tel: 1-631-559-9269 1-516-512-3133

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

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

|                            |                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>         | NM_001007156                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001007157                                                                                                                                                                                        |
| <b>MIM</b>                 | 191316                                                                                                                                                                                              |
| <b>Uniprot ID</b>          | Q16288                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 15q24-q25                                                                                                                                                                                           |
| <b>Pathway</b>             | Neurotrophic factor-mediated Trk receptor signaling, organism-specific biosystem; Neurotrophin signaling pathway, organism-specific biosystem; Neurotrophin signaling pathway, conserved biosystem; |
| <b>Function</b>            | ATP binding; kinase activity; neurotrophin binding; neurotrophin receptor activity; nucleotide binding;                                                                                             |

 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA