

# Recombinant Human NTRK2 Protein (32-430aa), C-His tagged

**Cat. No.** NTRK2-24H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human NTRK2 (32-430aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 32-430aa                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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. Mutations in this gene have been associated with obesity and mood disorders. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 45.2 kDa (407aa)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | CPTSCCKCSASRIWCSDPSPGIVAFPRLEPNSVDPENITEIFIANQKRLEIINEDDVEAY<br>VGLRNLTIVDSGLKFVAHKAFLKNSNLQHINFTRNKLTSLSRKHFRHLDLSELILVGNP<br>FTCSCDIMWIKTLQEAKSSPDTQDLYCLNESSKNIPLANLQIPNCGLPSANLAAPNLT<br>VEEGKSITLSCSVAGDPVPNMYWDVGNLVSKHMNETSHTQGSLRITNISSDDSGKQI<br>SCVAENLVGEDQDSVNLTVHFAPTITFLESPTSDHHWCIPFTVKGNPKPALQWFYN                                                                                                               |

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GAILNESKYICTKIHVTNHTTEYHGCLQLDNPTHMNNGDYTLIAKNEYGKDEKQISAHF  
MGWPGIDDGANPNYPDVIYEDYGTAANDIGDTTNRSNEIPSTDVTDKTGREH< LEH  
HHHHH>

**Endotoxin** < 1 EU/μg of protein (determined by LAL method)

**Purity** > 95% by SDS-PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/mL (determined by absorbance at 280nm)

**Storage Buffer** Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

## GENE INFORMATION

**Gene Name** NTRK2 neurotrophic tyrosine kinase, receptor, type 2 [ Homo sapiens (human) ]

**Official Symbol** NTRK2

**Synonyms** NTRK2; neurotrophic tyrosine kinase, receptor, type 2; BDNF/NT-3 growth factors receptor; TRKB; trkB tyrosine kinase; tyrosine kinase receptor B; tropomyosin-related kinase B; BDNF-tropomyosine receptor kinase B; trk-B; GP145-TrkB;

**Gene ID** 4915

**mRNA Refseq** NM\_001018064

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|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <b>Protein Refseq</b> | NP_001018074                                                                      |
| <b>MIM</b>            | 600456                                                                            |
| <b>UniProt ID</b>     | Q16620                                                                            |
| <b>SDS-PAGE</b>       | 3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain. |

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