

## Product datasheet for **TP762465**

### TrkA (NTRK1) (NM\_002529) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Human neurotrophic tyrosine kinase, receptor, type 1 (NTRK1), transcript variant 2, Asn440-End, with N-terminal His tag, expressed in E.coli, 50ug |
| Species:                              | Human  |
| Expression Host:                      | E. coli  |
| Expression cDNA Clone or AA Sequence: | A DNA sequence encoding the region(Asn440-End) of NTRK1  |
| Tag:                                  | N-His  |
| Predicted MW:                         | 40.0 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | 50 mM Tris-HCl, pH 8.0, 8 M urea   |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.                               |
| Storage:                              | Store at -80°C after receiving vials.  |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                      |
| RefSeq:                               | <a href="#">NP_002520</a>  |
| Locus ID:                             | 4914   |
| UniProt ID:                           | <a href="#">P04629</a>   |
| RefSeq Size:                          | 2663   |
| Cytogenetics:                         | 1q23.1   |
| RefSeq ORF:                           | 2388   |
| Synonyms:                             | MTC; p140-TrkA; TRK; Trk-A; TRK1; TRKA   |



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**Summary:**

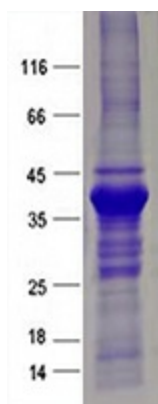
This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying 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. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:**

Apoptosis, Endocytosis, MAPK signaling pathway, Neurotrophin signaling pathway, Pathways in cancer, Thyroid cancer

**Product images:**

Purified recombinant protein NTRK1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.