

Bioactive

HuPro®

NTRK1 (Human) Recombinant Protein

Catalog # P7365

Size 10 ug

Specification

Product Description Human NTRK1 (P04629, 34 a.a. - 407 a.a) partial recombinant protein expressed in HEK293 cells.

Sequence APCPDACCPHGSSGLRCTRDGALDSLHHLPGAENL TELYIENQQHLQHLELRDLRGLGELRNLT I
VKSGLR FVAPDAFHFT PRLSRLNLSFNALESLSWKT VQGLSLQELVLSGNPLHCSCALRWLQRW
EEEGLGGVPEQKLQCHGQGPLAHMPNASC GVPTLKVQVPNASVDV GDDVLLRCQVEGRGLEQ
AGWILTELEQSATVMKSGGLPSLGLTLANVTSDLNRKNVTCWAENDV GRAEVS VQVNV SFPASV
QLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQPTH
VNNGNYTLAANPFGQASASIMAAFM DNPFEFNPEDPIPVSFSPVDTNSTSGDP

Host Human

Theoretical MW (kDa) 65 - 85

Form Lyophilized

Preparation Method Mammalian cell (HEK 293) expression system

Purity > 95% as analyzed by SDS-PAGE.

Endotoxin Level < 0.2 EU/ug of protein by gel clotting method

Activity ED₅₀ < 1.0 ug/mL, measured in a neutralization assay in the presence of 10.0 ng/ml human β-NGF u
sing TF-1 Cells.

Recommend Usage Biological Activity
SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer Lyophilized from PBS. Reconstitute the lyophilized powder in ddH₂O up to 100 ug/mL.

Storage Instruction Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — NTRK1

Entrez GeneID	4914
Protein Accession#	P04629
Gene Name	NTRK1
Gene Alias	DKFZp781I14186, MTC, TRK, TRK1, TRKA, p140-TrkA
Gene Description	neurotrophic tyrosine kinase, receptor, type 1
Omim ID	155240 191315 256800
Gene Ontology	Hyperlink
Gene 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, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date. [provided by RefSeq]
Other Designations	OTTHUMP00000038736 Oncogene TRK high affinity nerve growth factor receptor tyrosine kinase receptor A

Pathway

- [Apoptosis](#)
- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pathways in cancer](#)
- [Thyroid cancer](#)

Disease

- [Alzheimer disease](#)
- [Asperger Syndrome](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Eating Disorders](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hereditary Sensory and Autonomic Neuropathies](#)
- [Hyperparathyroidism](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Mental Disorders](#)
- [Neuroblastoma](#)
- [Social Perception](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)