

## Product datasheet for PH313091

### TrkA (NTRK1) (NM\_001012331) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	NTRK1 MS Standard C13 and N15-labeled recombinant protein (NP_001012331)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213091
Predicted MW:	86.7 kDa
Protein Sequence:	>RC213091 representing NM_001012331 Red=Cloning site Green=Tags(s)
	MLRGGRRGQLGWHSWAAGPGSLLAWLILASAGAAPCPDACCPHGSSGLRCTRDLGALDSLHHLPGAENLTE LYIENQQHLQHLELRDLRGLGELRNLTIKSGLRVFAPDAFHFTPRLSRLNLSFNAESLSWKTVQGLSL QELVLSGNPLHCSCALRWLQRWEEELGGVPEQKLQCHGQGPLAHMPNASCVPTLKVQVPNASVDVGGD VLLRCQVEGRGLEQAGWILTELEQSATVMKSGGLPSLGLTLANVTSDLNRKNLTCWAENDVGRAEVSQV NVSFPASVQLHTAVEMHHWCIPFSVDGQPAPSLRWLFNGSVLNETSFIFTEFLEPAANETVRHGCLRLNQ PTHVNNNGNYTLAANPFQASASIMAAFMDNPFEPNPEDPIPDTNSTSGDPVEKKDETPFGVSVAVGLAV FACFLSTLLLVLNKCGRRNKFGINRPVLAPEGLAMSLHFMTLGGSSLSPTTEGKSGSLQGHIIENPQY FSDACVHHIKRRDIVLKWELGEGAFGKVF LAECHNLLPEQDKMLVAVKALKEASESARQDFQREALLTM LQHQHIVRFFGVCTEGRPLL MVFEYMRHGD LNRFLRSHGPDAKLLAGGEDVAPGPLGLGQLLAVASQVAA GMVYLAGLHFVHRDLATRNCLVGQGLVVKIGDFGMSRDIYSTDYRVGGRTMLPIRWMPPE SILYRKFTT ESDVWSFGVVLWEIFTYKQPWYQLSNTEAIDCITQGRELERPRACPPEVYAIMRGWCWQREPQRHSIKD VHARLQALAQAPPVYLDVVG
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001012331</a>



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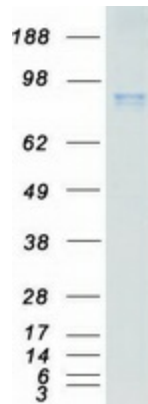
RefSeq Size:	2647
RefSeq ORF:	2370
Synonyms:	MTC; p140-TrkA; TRK; Trk-A; TRK1; TRKA
Locus ID:	4914
UniProt ID:	<a href="#">P04629</a> , <a href="#">X5DR71</a>
Cytogenetics:	1q23.1

**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:



Coomassie blue staining of purified NTRK1 protein (Cat# [TP313091]). The protein was produced from HEK293T cells transfected with NTRK1 cDNA clone (Cat# [RC213091]) using MegaTran 2.0 (Cat# [TT210002]).