TRK C Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	TRK C (NTRK3), Blocking Peptide
Full Product Name	TRK C Blocking Peptide
Product Gene Name	NTRK3 blocking peptide
Product Synonym Names	TRKC; NT-3 growth factor receptor; GP145-TrkC; Trk-C; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase
Host	Synthetic
Species Reactivity	Human, Monkey, Pig
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	TRK C peptide (MBS824355) is used for blocking the activity of TRK C antibody (MBS821642)
Molecular Weight	91,833 Da
OMIM	191316
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for NTRK3 blocking peptide	Blocking (BL)
Application Notes for NTRK3 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for NTRK3 blocking peptide	MBS824355 is a blocking peptide targeting NTRK3. Also known as TRK C Blocking Peptide. Reactive in Human, Monkey, Pig. Host: Synthetic. The peptide is used to block Anti-TRK C Antibody reactivity.
Other Notes	Small volumes of NTRK3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NTRK3. It may not necessarily be applicable to this product.

NCBI GI #	59889562
NCBI GeneID	4916
NCBI Accession #	NP_001012338.1
UniProt Primary Accession #	Q16288
UniProt Secondary Accession #	O75682; Q12827; Q16289; B7Z4C5; E9PG56; H0YND1
UniProt Related Accession #	Q16288
GenBank Nucleotide #	NM_001012338.2
NCBI Official Full Name	NT-3 growth factor receptor isoform a

NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 3
NCBI Official Symbol	NTRK3
NCBI Official Synonym Symbols	TRKC; gp145(trkC)
UniProt Protein Name	NT-3 growth factor receptor
UniProt Synonym Protein Names	GP145-TrkC; Trk-C; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase
Protein Family	NT-3 growth factor receptor
UniProt Gene Name	NTRK3
UniProt Synonym Gene Names	TRKC; Trk-C
UniProt Entry Name	NTRK3_HUMAN
NCBI Protein Information	NT-3 growth factor receptor; GP145-TrkC; ETV6-NTRK3 fusion; tyrosine kinase receptor C; ETS related protein-neurotrophic receptor tyrosine kinase fusion protein
NCBI Summary for NTRK3	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. [provided by RefSeq, Jul 2011]
UniProt Comments for NTRK3	TrkC: a receptor tyrosine kinase of the TRK family. Receptor for neurotrophin-3 (NT-3). Known substrates for the trk receptors are SHC, PI-3 kinase, and PLCG1. Four alternatively spliced isoforms are known. Protein type: Kinase, protein; Membrane protein, integral; Protein kinase, tyrosine (receptor); EC 2.7.10.1; Protein kinase, TK; TK group; Trk family Chromosomal Location of Human Ortholog: 15q25 Cellular Component: integral to plasma membrane; cytoplasm; receptor complex Molecular Function: neurotrophin binding; protein binding; ephrin receptor binding; p53 binding; transmembrane receptor protein tyrosine kinase activity; neurotrophin receptor activity; ATP binding Biological Process: circadian rhythm; mechanoreceptor differentiation; peptidyl-tyrosine phosphorylation; positive regulation of positive chemotaxis; activation of MAPK activity; protein amino acid autophosphorylation; activation of protein kinase B; positive regulation of axon extension involved in regeneration; neuron migration; positive regulation of peptidyl-serine phosphorylation; response to ethanol; negative regulation of protein amino acid phosphorylation; positive regulation of cell proliferation; negative regulation of astrocyte differentiation; modification by virus of host cell transcription; neuron fate specification; response to axon injury; transmembrane receptor protein tyrosine kinase signaling pathway; positive regulation of cell migration; response to corticosterone stimulus
Research Articles on NTRK3	**1.** ETV6-NTRK3 rearrangement can be directly induced in thyroid cells by ionizing radiation in vitro and, thus, may represent a novel mechanism of radiation-induced carcinogenesis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/ntrk3-human-monkey-pig-blocking-peptide/trk-c/824355