NTRK3 siRNA – Nt-3 Growth Factor Receptor Isoform 2 (Rat)

PRODUCT OVERVIEW

Product Name	NTRK3, siRNA
Full Product Name	NTRK3 siRNA (Rat)
Product Gene Name	NTRK3 sirna
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	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NTRK3 siRNA (Rat) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	62,759 Da
3D Structure	ModBase 3D Structure for Q03351
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of rat NTRK3 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for NTRK3 sirna	RNA Interference (RNAi)
Related Product Information for NTRK3 sirna	MBS8214776 is an siRNA targeting NTRK3. Also known as NTRK3 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit NTRK3 expression using RNA interference
Other Notes	Small volumes of NTRK3 sirna 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 #	397174820

NCBI GeneID	29613
NCBI Accession #	NP_001257584.1
UniProt Primary Accession #	Q03351
UniProt Related Accession #	Q03351
GenBank Nucleotide #	NM_001270655.1
NCBI Official Full Name	NT-3 growth factor receptor isoform 2
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 3
NCBI Official Symbol	Ntrk3
NCBI Official Synonym Symbols	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_RAT
NCBI Protein Information	NT-3 growth factor receptor
NCBI Summary for NTRK3	a tyrosine-protein kinase receptor for neurotrophin-3 [RGD, Feb 2006]
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: Membrane protein, integral; Kinase, protein; EC 2.7.10.1; Protein kinase, TK; Protein kinase, tyrosine (receptor); TK group; Trk family Cellular Component: Golgi membrane; membrane; integral to plasma membrane; cytoplasm; plasma membrane; receptor complex Molecular Function: ephrin receptor binding; p53 binding; transmembrane receptor protein tyrosine kinase activity; neurotrophin receptor activity; ATP binding Biological Process: circadian rhythm; mechanoreceptor differentiation; positive regulation of positive chemotaxis; peptidyl-tyrosine phosphorylation; activation of MAPK activity; positive regulation of axon extension involved in regeneration; activation of protein kinase B; protein amino acid autophosphorylation; 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.** Study suggests a role for genes responsible for neural plasticity (NTRK3 and BDNF) in the pathophysiology of depression, emphasizing hemispheric asymmetry in the level of gene expression
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