KIN siRNA – DNA/RNA-Binding Protein KIN17 (Human)

PRODUCT OVERVIEW

Product Name	KIN, siRNA
Full Product Name	KIN siRNA (Human)
Product Gene Name	KIN sirna
Product Synonym Names	BTCD; KIN17; DNA/RNA-binding protein KIN17; Binding to curved DNA; KIN. antigenic determinant of recA protein homolog
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	KIN siRNA (Human) 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	43,261 Da
OMIM	601720
3D Structure	ModBase 3D Structure for O60870
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 human KIN 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 KIN sirna	RNA Interference (RNAi)
Related Product Information for KIN sirna	MBS8217457 is an siRNA targeting KIN. Also known as KIN siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit KIN expression using RNA interference
Other Notes	Small volumes of KIN 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 KIN. It may not necessarily be applicable to this product.

NCBI GI #	13124883
NCBI GeneID	22944
NCBI Accession #	NP_036443.1
UniProt Primary Accession #	O60870
UniProt Secondary Accession #	B4DX32
UniProt Related Accession #	O60870
GenBank Nucleotide #	NM_012311.3
NCBI Official Full Name	DNA/RNA-binding protein KIN17
NCBI Official Synonym Full Names	Kin17 DNA and RNA binding protein
NCBI Official Symbol	KIN
NCBI Official Synonym Symbols	BTCD; Rts2; KIN17
UniProt Protein Name	DNA/RNA-binding protein KIN17
UniProt Synonym Protein Names	Binding to curved DNA; KIN, antigenic determinant of recA protein homolog
Protein Family	DNA/RNA-binding protein
UniProt Gene Name	KIN
UniProt Entry Name	KIN17_HUMAN
NCBI Protein Information	DNA/RNA-binding protein KIN17
NCBI Summary for KIN	The protein encoded by this gene is a nuclear protein that forms intranuclear foci during proliferation and is redistributed in the nucleoplasm during the cell cycle. Short-wave ultraviolet light provokes the relocalization of the protein, suggesting its participation in the cellular response to DNA damage. Originally selected based on protein-binding with RecA antibodies, the mouse protein presents a limited similarity with a functional domain of the bacterial RecA protein, a characteristic shared by this human ortholog. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]
UniProt Comments for KIN	KIN: Involved in DNA replication and the cellular response to DNA damage. May participate in DNA replication factories and create a bridge between DNA replication and repair mediated by high molecular weight complexes. May play a role in illegitimate recombination and regulation of gene expression. May participate in mRNA processing. Binds, in vitro, to double-stranded DNA. Also shown to bind preferentially to curved DNA in vitro and in vivo. Binds via its C-terminal domain to RNA in vitro. Belongs to the KIN17 family. Protein type: C2H2-type zinc finger protein; DNA replication Chromosomal Location of Human Ortholog: 10p14 Cellular Component: nuclear matrix; intracellular membrane-bound organelle; cytoplasm; nucleus Molecular Function: DNA binding; RNA binding; metal ion binding; double-stranded DNA binding Biological Process: viral reproduction; mRNA processing; DNA replication; DNA repair; response to DNA damage stimulus; DNA recombination
Research Articles on KIN	**1.** overexpression of KIN rendered colorectal cancer cells enriching cancer stem cell (CSC) markers and CSC phenotype, and silencing KIN reduced CSC markers and CSC phenotype.
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/human-sirna/kin/8217457