LIN54 siRNA – Protein Lin-54 Homolog Isoform B (Human)

PRODUCT OVERVIEW

Product Name	LIN54, siRNA
Full Product Name	LIN54 siRNA (Human)
Product Gene Name	LIN54 sirna
Product Synonym Names	CXCDC1; KIAA2037; Protein lin-54 homolog; CXC domain-containing protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	LIN54 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	25,743 Da
OMIM	613367
3D Structure	ModBase 3D Structure for Q6MZP7
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 LIN54 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 LIN54 sirna	RNA Interference (RNAi)
Related Product Information for LIN54 sirna	MBS8225117 is an siRNA targeting LIN54. Also known as LIN54 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit LIN54 expression using RNA interference
Other Notes	Small volumes of LIN54 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 LIN54. It may not necessarily be applicable to this product.

NCBI GI #	169234721
NCBI GeneID	132660
NCBI Accession #	NP_001108479.1
UniProt Primary Accession #	Q6MZP7
UniProt Secondary Accession #	Q32M68; Q32M69; Q6N071; Q76B60
UniProt Related Accession #	Q6MZP7
GenBank Nucleotide #	NM_001115007.2
NCBI Official Full Name	protein lin-54 homolog isoform b
NCBI Official Synonym Full Names	lin-54 DREAM MuvB core complex component
NCBI Official Symbol	LIN54
NCBI Official Synonym Symbols	JC8.6; CXCDC1; MIP120
UniProt Protein Name	Protein lin-54 homolog
UniProt Synonym Protein Names	CXC domain-containing protein 1
Protein Family	Protein
UniProt Gene Name	LIN54
UniProt Synonym Gene Names	CXCDC1; KIAA2037
UniProt Entry Name	LIN54_HUMAN
NCBI Protein Information	protein lin-54 homolog
NCBI Summary for LIN54	LIN54 is a component of the LIN, or DREAM, complex, an essential regulator of cell cycle genes (Schmit et al., 2009 [PubMed 19725879]).[supplied by OMIM, Dec 2010]
UniProt Comments for LIN54	DKFZp686L1814: Component of the DREAM complex, a multiprotein complex that can both act as a transcription activator or repressor depending on the context. In G0 phase, the complex binds to more than 800 promoters and is required for repression of E2F target genes. In S phase, the complex selectively binds to the promoters of G2/M genes whose products are required for mitosis and participates in their cell cycle dependent activation. In the complex, acts as a DNA-binding protein that binds the promoter of CDK1 in a sequence-specific manner. Belongs to the lin-54 family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Unknown function Chromosomal Location of Human Ortholog: 4q21.22 Cellular Component: nucleoplasm Molecular Function: protein binding; DNA binding Biological Process: regulation of transcription, DNA-dependent; transcription, DNA-dependent; regulation of cell cycle; mitotic cell cycle; G2/M transition of mitotic cell cycle
Research Articles on LIN54	**1.** LIN54 harboring a mutation in CHC domain is localized to the cytoplasm and inhibits cell cycle progression.
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/lin54/8225117