CDHR2 siRNA – Cadherin-Related Family Member 2 (Human)

PRODUCT OVERVIEW

Product Name	CDHR2, siRNA
Full Product Name	CDHR2 siRNA (Human)
Product Gene Name	CDHR2 sirna
Product Synonym Names	PCDH24; PCLKC; Cadherin-related family member 2; Protocadherin LKC; PC-LKC; Protocadherin-24
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CDHR2 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	141,543 Da
3D Structure	ModBase 3D Structure for Q9BYE9
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 CDHR2 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 CDHR2 sirna	RNA Interference (RNAi)
Related Product Information for CDHR2 sirna	MBS8209780 is an siRNA targeting CDHR2. Also known as CDHR2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit CDHR2 expression using RNA interference
Other Notes	Small volumes of CDHR2 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 CDHR2. It may not necessarily be applicable to this product.

NCBI GI #	285002214

NCBI GeneID	54825
NCBI Accession #	NP_001165447.1
UniProt Primary Accession #	Q9BYE9
UniProt Secondary Accession #	Q9NXP8; A1L3U4; A6NC80
UniProt Related Accession #	Q9BYE9
GenBank Nucleotide #	NM_001171976.1
NCBI Official Full Name	cadherin-related family member 2
NCBI Official Synonym Full Names	cadherin-related family member 2
NCBI Official Symbol	CDHR2
NCBI Official Synonym Symbols	PCLKC; PCDH24
UniProt Protein Name	Cadherin-related family member 2
UniProt Synonym Protein Names	Protocadherin LKC; PC-LKC; Protocadherin-24
Protein Family	Cadherin-related family
UniProt Gene Name	CDHR2
UniProt Synonym Gene Names	PCDH24; PCLKC; PC-LKC
UniProt Entry Name	CDHR2_HUMAN
NCBI Protein Information	cadherin-related family member 2
NCBI Summary for CDHR2	This gene is a member of the protocadherin family, which represents a subset of the larger cadherin superfamily. The members of the protocadherin family encode non-classical cadherins that function as calcium-dependent cell-cell adhesion molecules. This protocadherin represents a new candidate for tumor suppression. Alternatively spliced transcript variants that encode the same protein have been identified. [provided by RefSeq, Jan 2010]
UniProt Comments for CDHR2	PCDH24: Role in contact inhibition at the lateral surface of epithelial cells. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 5q35.2 Cellular Component: apical plasma membrane; integral to membrane; cell junction; brush border Molecular Function: protein binding; calcium ion binding Biological Process: negative regulation of cell growth; cell adhesion; homophilic cell adhesion
Research Articles on CDHR2	**1.** Study found that brush border assembly is driven by the formation of Ca(2+)-dependent adhesion links between adjacent microvilli. Intermicrovillar links are composed of protocadherin-24 and mucin-like protocadherin, which target to microvillar tips and interact to form a trans-heterophilic complex.
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/cdhr2/8209780