PCDH19 siRNA – Protocadherin-19 Isoform a (Human)

PRODUCT OVERVIEW

Product Name	PCDH19, siRNA
Full Product Name	PCDH19 siRNA (Human)
Product Gene Name	PCDH19 sirna
Product Synonym Names	KIAA1313; Protocadherin-19
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PCDH19 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	121,014 Da
OMIM	300088
3D Structure	ModBase 3D Structure for Q8TAB3
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 PCDH19 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 PCDH19 sirna	RNA Interference (RNAi)
Related Product Information for PCDH19 sirna	MBS8206606 is an siRNA targeting PCDH19. Also known as PCDH19 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit PCDH19 expression using RNA interference
Other Notes	Small volumes of PCDH19 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 PCDH19. It may not necessarily be applicable to this product.

NCBI GI #	157426847
NCBI GeneID	57526
NCBI Accession #	NP_001098713.1
UniProt Primary Accession #	Q8TAB3
UniProt Secondary Accession #	Q5JTG1; Q5JTG2; Q68DT7; Q9P2N3; B0LDS4; E9PAM6
UniProt Related Accession #	Q8TAB3
GenBank Nucleotide #	NM_001105243.1
NCBI Official Full Name	protocadherin-19 isoform a
NCBI Official Synonym Full Names	protocadherin 19
NCBI Official Symbol	PCDH19
NCBI Official Synonym Symbols	EFMR; EIEE9
UniProt Protein Name	Protocadherin-19
Protein Family	Protocadherin
UniProt Gene Name	PCDH19
UniProt Synonym Gene Names	KIAA1313
UniProt Entry Name	PCD19_HUMAN
NCBI Protein Information	protocadherin-19
NCBI Summary for PCDH19	The protein encoded by this gene is a member of the delta-2 protocadherin subclass of the cadherin superfamily. The encoded protein is thought to be a calcium-dependent cell-adhesion protein that is primarily expressed in the brain. Defects in this gene are a cause of epilepsy female-restricted with mental retardation (EFMR). Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]
UniProt Comments for PCDH19	PCDH19: Potential calcium-dependent cell-adhesion protein. Defects in PCDH19 are the cause of epileptic encephalopathy early infantile type 9 (EIEE9); also known as epilepsy female-restricted with mental retardation. A condition characterized by seizure with onset in infancy or early childhood, cognitive impairment, and delayed development of variable severity in some patients. Additional features include autistic signs and psychosis. The disorder is sex-limited, with the phenotype being restricted to females. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: Xq22.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: calcium ion binding Biological Process: homophilic cell adhesion Disease: Epileptic Encephalopathy, Early Infantile, 9
Research Articles on PCDH19	**1.** girls with a de novo mutation in PCDH19 presented a delay of expressive language acquisition and lower scores at follow-up testing completed at older ages
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