ZDHHC9 siRNA – Palmitoyltransferase ZDHHC9 (Human)

PRODUCT OVERVIEW

Product Name	ZDHHC9, siRNA
Full Product Name	ZDHHC9 siRNA (Human)
Product Gene Name	ZDHHC9 sirna
Product Synonym Names	CXorf11; ZDHHC10; ZNF379; ZNF380; Palmitoyltransferase ZDHHC9; Zinc finger DHHC domain-containing protein 9; DHHC-9; DHHC9; Zinc finger protein 379; Zinc finger protein 380
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ZDHHC9 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	40,916 Da
OMIM	300646
3D Structure	ModBase 3D Structure for Q9Y397
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 ZDHHC9 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 ZDHHC9 sirna	RNA Interference (RNAi)
Related Product Information for ZDHHC9 sirna	MBS8241353 is an siRNA targeting ZDHHC9. Also known as ZDHHC9 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ZDHHC9 expression using RNA interference
Other Notes	Small volumes of ZDHHC9 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 ZDHHC9. It may not necessarily be applicable to this product.

NCBI GI #	56682974
NCBI GeneID	51114
NCBI Accession #	NP_001008223.1
UniProt Primary Accession #	Q9Y397
UniProt Secondary Accession #	Q59EK4; Q5JSW5; Q8WWS7; Q9BPY4; Q9NSP0; Q9NVL0; Q9NVR6; B4F6G2; D3DTF9
UniProt Related Accession #	Q9Y397
GenBank Nucleotide #	NM_001008222.2
NCBI Official Full Name	palmitoyltransferase ZDHHC9
NCBI Official Synonym Full Names	zinc finger, DHHC-type containing 9
NCBI Official Symbol	ZDHHC9
NCBI Official Synonym Symbols	CGI89; DHHC9; MMSA1; MRXSZ; ZNF379; ZNF380; CXorf11; ZDHHC10
UniProt Protein Name	Palmitoyltransferase ZDHHC9
UniProt Synonym Protein Names	Zinc finger DHHC domain-containing protein 9; DHHC-9; DHHC9; Zinc finger protein 379; Zinc finger protein 380
Protein Family	Palmitoyltransferase
UniProt Gene Name	ZDHHC9
UniProt Synonym Gene Names	CXorf11; ZDHHC10; ZNF379; ZNF380; DHHC-9; DHHC9
UniProt Entry Name	ZDHC9_HUMAN
NCBI Protein Information	palmitoyltransferase ZDHHC9
NCBI Summary for ZDHHC9	This gene encodes an integral membrane protein that is a member of the zinc finger DHHC domain-containing protein family. The encoded protein forms a complex with golgin subfamily A member 7 and functions as a palmitoyltransferase. This protein specifically palmitoylates HRAS and NRAS. Mutations in this gene are associated with X-linked mental retardation. Alternate splicing results in multiple transcript variants that encode the same protein.[provided by RefSeq, May 2010]
UniProt Comments for ZDHHC9	ZDHHC9: The ZDHHC9-GOLGA7 complex is a palmitoyltransferase specific for HRAS and NRAS. Defects in ZDHHC9 are the cause of mental retardation syndromic X-linked ZDHHC9-related (MRXSZ). A disorder characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Some patients have marfanoid habitus as an additional feature. Belongs to the DHHC palmitoyltransferase family. ERF2/ZDHHC9 subfamily. Protein type: EC 2.3.1.225; Membrane protein, integral; Membrane protein, multi-pass; Transferase Chromosomal Location of Human Ortholog: Xq26.1 Cellular Component: Golgi apparatus; endoplasmic reticulum membrane; endoplasmic reticulum; intrinsic to Golgi membrane; cytoplasm; integral to membrane Molecular Function: zinc ion binding; Ras palmitoyltransferase activity; palmitoyltransferase activity; protein-cysteine S-palmitoleyltransferase activity Biological Process: peptidyl-S-palmitoyl-L-cysteine biosynthetic process from peptidyl-cysteine; protein palmitoylation Disease: Mental Retardation, X-linked, Syndromic, Raymond Type
Research Articles on ZDHHC9	**1.** Two missense mutation, R148W and P150S,of zDHHC9, affecting the autopalmitoylation is associated with the X-linked intellectual disability.

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