ZDHHC3 siRNA – Palmitoyltransferase ZDHHC3 (Mouse)

PRODUCT OVERVIEW

Product Name	ZDHHC3, siRNA
Full Product Name	ZDHHC3 siRNA (Mouse)
Product Gene Name	ZDHHC3 sirna
Product Synonym Names	GODZ; GRAMP1; Palmitoyltransferase ZDHHC3; GABA-A receptor-associated membrane protein 1; Golgi-specific DHHC zinc finger protein; Zinc finger DHHC domain-containing protein 3; DHHC-3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ZDHHC3 siRNA (Mouse) 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	34,041 Da
3D Structure	ModBase 3D Structure for Q8R173
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 mouse ZDHHC3 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 ZDHHC3 sirna	RNA Interference (RNAi)
Related Product Information for ZDHHC3 sirna	MBS8220682 is an siRNA targeting ZDHHC3. Also known as ZDHHC3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit ZDHHC3 expression using RNA interference
Other Notes	Small volumes of ZDHHC3 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 ZDHHC3. It may not necessarily be applicable to this product.

NCBI GI #	27754040
NCBI GeneID	69035
NCBI Accession #	NP_081193.2
UniProt Primary Accession #	Q8R173
UniProt Secondary Accession #	Q6EMK3
UniProt Related Accession #	Q8R173
GenBank Nucleotide #	NM_026917.5
NCBI Official Full Name	palmitoyltransferase ZDHHC3
NCBI Official Synonym Full Names	zinc finger, DHHC domain containing 3
NCBI Official Symbol	Zdhhc3
NCBI Official Synonym Symbols	GODZ; DHHC-3; Gramp1; Zfp373; 1110020O22Rik; 1810006O10Rik; 2210017C02Rik
UniProt Protein Name	Palmitoyltransferase ZDHHC3
UniProt Synonym Protein Names	GABA-A receptor-associated membrane protein 1
Protein Family	Palmitoyltransferase
UniProt Gene Name	Zdhhc3
UniProt Synonym Gene Names	DHHC-3
UniProt Entry Name	ZDHC3_MOUSE
NCBI Protein Information	palmitoyltransferase ZDHHC3
UniProt Comments for ZDHHC3	ZDHHC3: Palmitoyltransferase with broad specificity. Palmitoylates GABA receptors on their gamma subunit (GABRG1, GABRG2 and GABRG3), which regulates synaptic clustering and/or cell surface stability. Palmitoylates glutamate receptors GRIA1 and GRIA2, which leads to their retention in Golgi. Belongs to the DHHC palmitoyltransferase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; EC 2.3.1.225; Transferase; Membrane protein, integral Cellular Component: Golgi apparatus; membrane; integral to membrane Molecular Function: transferase activity; zinc ion binding; metal ion binding; transferase activity, transferring acyl groups; palmitoyltransferase activity; protein-cysteine S-palmitoleyltransferase activity Biological Process: protein palmitoylation; protein targeting
Research Articles on ZDHHC3	**1.** In silico screening for palmitoyl substrates reveals a role for DHHC1/3/10 (zDHHC1/3/11)-mediated neurochondrin palmitoylation in its targeting to Rab5-positive endosomes.
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.
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