PLA2G16 siRNA – HRAS-Like Suppressor 3 (Mouse)

PRODUCT OVERVIEW

Product Name	PLA2G16, siRNA
Full Product Name	PLA2G16 siRNA (Mouse)
Product Gene Name	PLA2G16 sirna
Product Synonym Names	H-REV107; HRASLS3; HREV107; HRAS-like suppressor 3; HRSL3; Group XVI phospholipase A1/A2; H-rev 107 protein
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PLA2G16 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	18,932 Da
3D Structure	ModBase 3D Structure for Q8R3U1
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 PLA2G16 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 PLA2G16 sirna	RNA Interference (RNAi)
Related Product Information for PLA2G16 sirna	MBS828378 is an siRNA targeting PLA2G16. Also known as PLA2G16 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PLA2G16 expression using RNA interference
Other Notes	Small volumes of PLA2G16 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 PLA2G16. It may not necessarily be applicable to this product.

NCBI GI #	84781797
NCBI GeneID	225845
NCBI Accession #	NP_644675.2
UniProt Primary Accession #	Q8R3U1
UniProt Secondary Accession #	Q3V3C3; Q8BWF7; B7X6T3
UniProt Related Accession #	Q8R3U1
GenBank Nucleotide #	NM_139269.2
NCBI Official Full Name	HRAS-like suppressor 3
NCBI Official Synonym Full Names	phospholipase A2, group XVI
NCBI Official Symbol	Pla2g16
NCBI Official Synonym Symbols	HRSL3; MLP-3; C78643; Hrasls3; Hrev107
UniProt Protein Name	HRAS-like suppressor 3
UniProt Synonym Protein Names	Group XVI phospholipase A1/A2; H-rev 107 protein
Protein Family	HRAS-like suppressor
UniProt Gene Name	Pla2g16
UniProt Synonym Gene Names	H-rev107; Hrasls3; Hrev107; HRSL3
UniProt Entry Name	HRSL3_MOUSE
NCBI Protein Information	HRAS-like suppressor 3
UniProt Comments for PLA2G16	PLA2G16: Exhibits PLA1/2 activity, catalyzing the calcium- independent hydrolysis of acyl groups in various phosphotidylcholines (PC) and phosphatidylethanolamine (PE). For most substrates, PLA1 activity is much higher than PLA2 activity. Specifically catalyzes the release of fatty acids from phospholipids in adipose tissue. N- and O-acylation activity is hardly detectable. Might decrease protein phosphatase 2A (PP2A) activity. Belongs to the H-rev107 family. Protein type: EC 3.1.1.4; Membrane protein, integral; EC 3.1.1.32 Cellular Component: membrane; endoplasmic reticulum; perinuclear region of cytoplasm; cytoplasm; integral to membrane Molecular Function: phospholipase A2 activity; hydrolase activity; phospholipase A1 activity; transferase activity, transferring acyl groups Biological Process: phospholipid metabolic process; lipid metabolic process; lipid catabolic process; negative regulation of cell cycle; phospholipid biosynthetic process
Research Articles on PLA2G16	**1.** several mutant p53 proteins bind the Pla2g16 promoter at E26 transformation-specific (ETS) binding motifs and knockdown of ETS2 suppressed mutant p53 induction of Pla2g16.
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