PDPR siRNA – Pyruvate Dehydrogenase Phosphatase Regulatory Subunit, Mitochondrial (Mouse)

PRODUCT OVERVIEW

Product Name	PDPR, siRNA
Full Product Name	PDPR siRNA (Mouse)
Product Gene Name	PDPR sirna
Product Synonym Names	KIAA1990; Pyruvate dehydrogenase phosphatase regulatory subunit mitochondrial; PDPr
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PDPR 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	99,230 Da
3D Structure	ModBase 3D Structure for Q7TSQ8
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 PDPR 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 PDPR sirna	RNA Interference (RNAi)
Related Product Information for PDPR sirna	MBS8215012 is an siRNA targeting PDPR. Also known as PDPR siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PDPR expression using RNA interference
Other Notes	Small volumes of PDPR 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 PDPR. It may not necessarily be applicable to this product.

NCBI GI #	38142488
NCBI GeneID	319518
NCBI Accession #	NP_938050.1
UniProt Primary Accession #	Q7TSQ8
UniProt Secondary Accession #	Q6ZPF5
UniProt Related Accession #	Q7TSQ8
GenBank Nucleotide #	NM_198308.1
NCBI Official Full Name	pyruvate dehydrogenase phosphatase regulatory subunit, mitochondrial
NCBI Official Synonym Full Names	pyruvate dehydrogenase phosphatase regulatory subunit
NCBI Official Symbol	Pdpr
NCBI Official Synonym Symbols	AU018056; mKIAA1990; 4930402E16Rik
UniProt Protein Name	Pyruvate dehydrogenase phosphatase regulatory subunit, mitochondrial
Protein Family	Pyruvate dehydrogenase phosphatase regulatory
UniProt Gene Name	Pdpr
UniProt Synonym Gene Names	Kiaa1990; PDPr
UniProt Entry Name	PDPR_MOUSE
NCBI Protein Information	pyruvate dehydrogenase phosphatase regulatory subunit, mitochondrial
UniProt Comments for PDPR	PDPR: the inhibitory regulatory subunit of PDP1, a protein phosphoserine phosphatase associated with the mitochondrial matrix. PDP1 activates phosphorylated pyruvate dehydrogenase complex by dephosphorylation and plays a crucial role in switching metabolic flux from glycolysis towards oxidative phosphorylation. Decreases the sensitivity of PDP1 to magnesium ions, and this inhibition is reversed by spermine. Protein type: Mitochondrial Cellular Component: mitochondrion; cytoplasm Molecular Function: oxidoreductase activity
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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