PPCDC siRNA – Phosphopantothenoylcysteine Decarboxylase (Mouse)

PRODUCT OVERVIEW

Product Name	PPCDC, siRNA
Full Product Name	PPCDC siRNA (Mouse)
Product Gene Name	PPCDC sirna
Product Synonym Names	COAC; Phosphopantothenoylcysteine decarboxylase; PPC-DC; CoaC
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PPCDC 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	22,344 Da
3D Structure	ModBase 3D Structure for Q8BZB2
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 PPCDC 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 PPCDC sirna	RNA Interference (RNAi)
Related Product Information for PPCDC sirna	MBS8203729 is an siRNA targeting PPCDC. Also known as PPCDC siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit PPCDC expression using RNA interference
Other Notes	Small volumes of PPCDC 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 PPCDC. It may not necessarily be applicable to this product.

NCBI GI #	28849879

NCBI GeneID	66812
NCBI Accession #	NP_789801.1
UniProt Primary Accession #	Q8BZB2
UniProt Related Accession #	Q8BZB2
GenBank Nucleotide #	NM_176831.4
NCBI Official Full Name	phosphopantothenoylcysteine decarboxylase
NCBI Official Synonym Full Names	phosphopantothenoylcysteine decarboxylase
NCBI Official Symbol	Ppcdc
NCBI Official Synonym Symbols	1810057I13Rik; 8430432M10Rik
UniProt Protein Name	Phosphopantothenoylcysteine decarboxylase
UniProt Synonym Protein Names	CoaC
Protein Family	Putative phosphopantothenoylcysteine decarboxylase
UniProt Gene Name	Ppcdc
UniProt Synonym Gene Names	Coac; PPC-DC
UniProt Entry Name	COAC_MOUSE
NCBI Protein Information	phosphopantothenoylcysteine decarboxylase
UniProt Comments for PPCDC	PPCDC: Necessary for the biosynthesis of coenzyme A. Catalyzes the decarboxylation of 4-phosphopantothenoylcysteine to form 4'- phosphopantotheine. Belongs to the HFCD (homooligomeric flavin containing Cys decarboxylase) superfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cofactor and Vitamin Metabolism - pantothenate and CoA biosynthesis; Lyase; EC 4.1.1.36 Molecular Function: lyase activity; carboxy-lyase activity; phosphopantothenoylcysteine decarboxylase activity; catalytic activity Biological Process: coenzyme A biosynthetic process
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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