PCYOX1 siRNA – Prenylcysteine Oxidase (Rat)

PRODUCT OVERVIEW

Product Name	PCYOX1, siRNA
Full Product Name	PCYOX1 siRNA (Rat)
Product Gene Name	PCYOX1 sirna
Product Synonym Names	CLP55; Prenylcysteine oxidase; Chloride ion pump-associated 55 kDa protein
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PCYOX1 siRNA (Rat) 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	56,288 Da
3D Structure	ModBase 3D Structure for Q99ML5
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 rat PCYOX1 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 PCYOX1 sirna	RNA Interference (RNAi)
Related Product Information for PCYOX1 sirna	MBS8222467 is an siRNA targeting PCYOX1. Also known as PCYOX1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit PCYOX1 expression using RNA interference
Other Notes	Small volumes of PCYOX1 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 PCYOX1. It may not necessarily be applicable to this product.

NCBI GI #	21489987

NCBI GeneID	246302
NCBI Accession #	NP_659553.1
UniProt Primary Accession #	Q99ML5
UniProt Related Accession #	Q99ML5
GenBank Nucleotide #	NM_145085.2
NCBI Official Full Name	prenylcysteine oxidase
NCBI Official Synonym Full Names	prenylcysteine oxidase 1
NCBI Official Symbol	Pcyox1
NCBI Official Synonym Symbols	Clp55
UniProt Protein Name	Prenylcysteine oxidase
UniProt Synonym Protein Names	Chloride ion pump-associated 55 kDa protein
Protein Family	Prenylcysteine oxidase
UniProt Gene Name	Pcyox1
UniProt Synonym Gene Names	Clp55
UniProt Entry Name	PCYOX_RAT
NCBI Protein Information	prenylcysteine oxidase
NCBI Summary for PCYOX1	a Cl(-) pump subunit; involved in outwardly directed Cl(-) transport [RGD, Feb 2006]
UniProt Comments for PCYOX1	Involved in the degradation of prenylated proteins. Cleaves the thioether bond of prenyl-L-cysteines, such as farnesylcysteine and geranylgeranylcysteine ().
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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