PROCA1 siRNA – Protein PROCA1 (Rat)

PRODUCT OVERVIEW

Product Name	PROCA1, siRNA
Full Product Name	PROCA1 siRNA (Rat)
Product Gene Name	PROCA1 sirna
Product Synonym Names	Protein PROCA1
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	PROCA1 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	35,333 Da
3D Structure	ModBase 3D Structure for Q4V7B4
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 PROCA1 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 PROCA1 sirna	RNA Interference (RNAi)
Related Product Information for PROCA1 sirna	MBS8222136 is an siRNA targeting PROCA1. Also known as PROCA1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit PROCA1 expression using RNA interference
Other Notes	Small volumes of PROCA1 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 PROCA1. It may not necessarily be applicable to this product.

NCBI GI #	71043908

NCBI GeneID	497959
NCBI Accession #	NP_001020929.1
UniProt Primary Accession #	Q4V7B4
UniProt Related Accession #	Q4V7B4
GenBank Nucleotide #	NM_001025758.1
NCBI Official Full Name	protein PROCA1
NCBI Official Synonym Full Names	protein interacting with cyclin A1
NCBI Official Symbol	Proca1
UniProt Protein Name	Protein PROCA1
Protein Family	Protein
UniProt Gene Name	Proca1
UniProt Entry Name	PRCA1_RAT
NCBI Protein Information	protein PROCA1
UniProt Comments for PROCA1	PROCA1: Belongs to the PROCA1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Molecular Function: phospholipase A2 activity; calcium ion binding Biological Process: lipid catabolic 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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