CDK2AP1 siRNA – Cyclin-Dependent Kinase 2-Associated Protein 1 (Mouse)

PRODUCT OVERVIEW

Product Name	CDK2AP1, siRNA
Full Product Name	CDK2AP1 siRNA (Mouse)
Product Gene Name	CDK2AP1 sirna
Product Synonym Names	CDKAP1; DOC1; Cyclin-dependent kinase 2-associated protein 1; CDK2-associated protein 1; Deleted in oral cancer 1; DOC-1; Putative oral cancer suppressor
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CDK2AP1 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	12,354 Da
3D Structure	ModBase 3D Structure for O35207
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 CDK2AP1 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 CDK2AP1 sirna	RNA Interference (RNAi)
Related Product Information for CDK2AP1 sirna	MBS8217456 is an siRNA targeting CDK2AP1. Also known as CDK2AP1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CDK2AP1 expression using RNA interference
Other Notes	Small volumes of CDK2AP1 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 CDK2AP1. It may not necessarily be applicable to this product.

NCBI GI #	49355794
NCBI GeneID	13445
NCBI Accession #	NP_038840.2
UniProt Primary Accession #	O35207
UniProt Secondary Accession #	Q3SYK3; Q6ZWZ1; B2RV53
UniProt Related Accession #	O35207
GenBank Nucleotide #	NM_013812.2
NCBI Official Full Name	cyclin-dependent kinase 2-associated protein 1
NCBI Official Synonym Full Names	CDK2 (cyclin-dependent kinase 2)-associated protein 1
NCBI Official Symbol	Cdk2ap1
NCBI Official Synonym Symbols	p12; Doc1; ST19; Apc10; DORC1; doc-1; Cdkap1
UniProt Protein Name	Cyclin-dependent kinase 2-associated protein 1
UniProt Synonym Protein Names	Deleted in oral cancer 1; DOC-1; Putative oral cancer suppressor
Protein Family	Cyclin-dependent kinase 2-associated protein
UniProt Gene Name	Cdk2ap1
UniProt Synonym Gene Names	Cdkap1; Doc1; CDK2-associated protein 1; DOC-1
UniProt Entry Name	CDKA1_MOUSE
NCBI Protein Information	cyclin-dependent kinase 2-associated protein 1
UniProt Comments for CDK2AP1	CDK2AP1: specific inhibitor of the cell-cycle kinase CDK2. Belongs to the CDK2AP family. Protein type: DNA replication; Tumor suppressor; Cell cycle regulation Cellular Component: perinuclear region of cytoplasm; nucleus Biological Process: in utero embryonic development; positive regulation of protein amino acid phosphorylation
Research Articles on CDK2AP1	**1.** Cdk2ap1 expression is primarily regulated by progesterone and the progesterone receptor in uterus and is mainly localized to proliferating tissues.
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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