CDKN3 siRNA – Cyclin-Dependent Kinase Inhibitor 3 Isoform X1 (Rat)

PRODUCT OVERVIEW

Product Name	CDKN3, siRNA
Full Product Name	CDKN3 siRNA (Rat)
Product Gene Name	CDKN3 sirna
Product Synonym Names	KAP; Cyclin-dependent kinase inhibitor 3; CDK2-associated dual-specificity phosphatase; Kinase-associated phosphatase
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CDKN3 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	23,774 Da
3D Structure	ModBase 3D Structure for B2RZ50
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 CDKN3 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 CDKN3 sirna	RNA Interference (RNAi)
Related Product Information for CDKN3 sirna	MBS8221541 is an siRNA targeting CDKN3. Also known as CDKN3 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit CDKN3 expression using RNA interference
Other Notes	Small volumes of CDKN3 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 CDKN3. It may not necessarily be applicable to this product.

NCBI GI #	564385749

NCBI GeneID	289993
NCBI Accession #	XP_006251853.1
UniProt Primary Accession #	B2RZ50
UniProt Related Accession #	B2RZ50
GenBank Nucleotide #	XM_006251791.2
NCBI Official Full Name	cyclin-dependent kinase inhibitor 3 isoform X1
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 3
NCBI Official Symbol	Cdkn3
UniProt Protein Name	Cyclin-dependent kinase inhibitor 3
UniProt Synonym Protein Names	CDK2-associated dual-specificity phosphatase
Protein Family	Cyclin-dependent kinase inhibitor
UniProt Gene Name	Cdkn3
UniProt Entry Name	CDKN3_RAT
NCBI Protein Information	cyclin-dependent kinase inhibitor 3
UniProt Comments for CDKN3	CDKN3: May play a role in cell cycle regulation. Dual specificity phosphatase active toward substrates containing either phosphotyrosine or phosphoserine residues. Dephosphorylates CDK2 at 'Thr-160' in a cyclin-dependent manner. Defects in CDKN3 are found in patients with hepatocellular carcinoma (HCC). Belongs to the protein-tyrosine phosphatase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Protein phosphatase, dual-specificity; EC 3.1.3.48; EC 3.1.3.16; Cell cycle regulation Cellular Component: cytoplasm; nucleus; perinuclear region of cytoplasm Molecular Function: protein serine/threonine phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity Biological Process: cell cycle arrest; G1/S transition of mitotic cell cycle; protein amino acid dephosphorylation
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