CDK5RAP3 siRNA – CDK5 Regulatory Subunit-Associated Protein 3 Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	CDK5RAP3, siRNA
Full Product Name	CDK5RAP3 siRNA (Mouse)
Product Gene Name	CDK5RAP3 sirna
Product Synonym Names	CDK5 regulatory subunit-associated protein 3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CDK5RAP3 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	56,991 Da
3D Structure	ModBase 3D Structure for Q99LM2
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 CDK5RAP3 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 CDK5RAP3 sirna	RNA Interference (RNAi)
Related Product Information for CDK5RAP3 sirna	MBS8241076 is an siRNA targeting CDK5RAP3. Also known as CDK5RAP3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CDK5RAP3 expression using RNA interference
Other Notes	Small volumes of CDK5RAP3 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 CDK5RAP3. It may not necessarily be applicable to this product.

NCBI GI #	13384788

NCBI GeneID	80280
NCBI Accession #	NP_084524.1
UniProt Primary Accession #	Q99LM2
UniProt Secondary Accession #	Q3UE41
UniProt Related Accession #	Q99LM2
GenBank Nucleotide #	NM_030248.2
NCBI Official Full Name	CDK5 regulatory subunit-associated protein 3 isoform 1
NCBI Official Synonym Full Names	CDK5 regulatory subunit associated protein 3
NCBI Official Symbol	Cdk5rap3
NCBI Official Synonym Symbols	C53; IC53; LZAP; C81486; HSF-27; MST016; BC002318; 1810007E24Rik
UniProt Protein Name	CDK5 regulatory subunit-associated protein 3
Protein Family	CDK5 regulatory subunit-associated protein
UniProt Gene Name	Cdk5rap3
UniProt Entry Name	CK5P3_MOUSE
NCBI Protein Information	CDK5 regulatory subunit-associated protein 3
UniProt Comments for CDK5RAP3	CDK5RAP3: Potential regulator of CDK5 activity. May be involved in cell proliferation. Regulates CDK5 activity via its interaction with CDK5R1. Belongs to the CDK5RAP3 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Cellular Component: protein complex; membrane; cytoplasm; endomembrane system; nucleus Molecular Function: cyclin binding; protein binding; protein complex binding Biological Process: cell proliferation; inhibition of NF-kappaB transcription factor; positive regulation of protein ubiquitination; regulation of mitotic cell cycle; positive regulation of transcription from RNA polymerase II promoter; regulation of cyclin-dependent protein kinase activity
Research Articles on CDK5RAP3	**1.** Results suggest that C53 might play a role in regulating neuronal proliferation, migration and/or differentiation in embryonic development.
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