SPDYA siRNA – Speedy Protein A (Rat)

PRODUCT OVERVIEW

Product Name	SPDYA, siRNA
Full Product Name	SPDYA siRNA (Rat)
Product Gene Name	SPDYA sirna
Product Synonym Names	SPDY1; Speedy protein A; GS4; Rapid inducer of G2/M progression in oocytes A; RINGO A; Speedy-1; Spy1
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SPDYA 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	36,223 Da
3D Structure	ModBase 3D Structure for Q8R496
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 SPDYA 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 SPDYA sirna	RNA Interference (RNAi)
Related Product Information for SPDYA sirna	MBS8225370 is an siRNA targeting SPDYA. Also known as SPDYA siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit SPDYA expression using RNA interference
Other Notes	Small volumes of SPDYA 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 SPDYA. It may not necessarily be applicable to this product.

NCBI GI #	20302006

NCBI GeneID	192209
NCBI Accession #	NP_620210.1
UniProt Primary Accession #	Q8R496
UniProt Secondary Accession #	Q68G34
UniProt Related Accession #	Q8R496
GenBank Nucleotide #	NM_138855.1
NCBI Official Full Name	speedy protein A
NCBI Official Synonym Full Names	speedy/RINGO cell cycle regulator family member A
NCBI Official Symbol	Spdya
NCBI Official Synonym Symbols	Gs4; Lm23; Spy1; Spdy1
UniProt Protein Name	Speedy protein A
UniProt Synonym Protein Names	GS4; Rapid inducer of G2/M progression in oocytes A; RINGO A; Speedy-1; Spy1
Protein Family	Speedy protein
UniProt Gene Name	Spdya
UniProt Synonym Gene Names	RINGO A; Spy1
UniProt Entry Name	SPDYA_RAT
NCBI Protein Information	speedy protein A
NCBI Summary for SPDYA	may have a role in spermatogenesis [RGD, Feb 2006]
UniProt Comments for SPDYA	Regulates the G1/S phase transition of the cell cycle by binding and activating CDK1, CDK2 and CDKN1B/KIP1. Can activate CDK2 without promoting CDK2 phosphorylation. Mediates cell survival during the DNA damage process through activation of CDK2 ().
Research Articles on SPDYA	**1.** LM23 played a protective role in H2O2-induced apoptosis of 293T cells, mediated at least in part through the Akt/PI3K signal pathway; these results provide new insights into the role of LM23 in the development of the testes and spermatogenesis.
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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