SPRR2A siRNA – Small Proline-Rich Protein 2a (Human)

PRODUCT OVERVIEW

Product Name	SPRR2A, siRNA
Full Product Name	SPRR2A siRNA (Human)
Product Gene Name	SPRR2A sirna
Product Synonym Names	Small proline-rich protein 2A; SPR-2A; 2-1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SPRR2A siRNA (Human) 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	7,965 Da
OMIM	182267
3D Structure	ModBase 3D Structure for P35326
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 human SPRR2A 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 SPRR2A sirna	RNA Interference (RNAi)
Related Product Information for SPRR2A sirna	MBS8213269 is an siRNA targeting SPRR2A. Also known as SPRR2A siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SPRR2A expression using RNA interference
Other Notes	Small volumes of SPRR2A 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 SPRR2A. It may not necessarily be applicable to this product.

NCBI GI #	5174693
NCBI GeneID	6700
NCBI Accession #	NP_005979.1
UniProt Primary Accession #	P35326
UniProt Secondary Accession #	Q5T529; B2R4T3; D3DV35
UniProt Related Accession #	P35326
GenBank Nucleotide #	NM_005988.2
NCBI Official Full Name	small proline-rich protein 2A
NCBI Official Synonym Full Names	small proline-rich protein 2A
NCBI Official Symbol	SPRR2A
UniProt Protein Name	Small proline-rich protein 2A
UniProt Synonym Protein Names	2-1
Protein Family	Small proline-rich protein
UniProt Gene Name	SPRR2A
UniProt Synonym Gene Names	SPR-2A
UniProt Entry Name	SPR2A_HUMAN
NCBI Protein Information	small proline-rich protein 2A
UniProt Comments for SPRR2A	SPRR2A: Cross-linked envelope protein of keratinocytes. It is a keratinocyte protein that first appears in the cell cytosol, but ultimately becomes cross-linked to membrane proteins by transglutaminase. All that results in the formation of an insoluble envelope beneath the plasma membrane. Belongs to the cornifin (SPRR) family. During squamous differentiation of epidermal keratinocytes Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: cytoplasm; cornified envelope Molecular Function: protein binding Biological Process: keratinocyte differentiation; epidermis development; keratinization
Research Articles on SPRR2A	**1.** SPRR2a modulates ZEB-1 signaling by way of miR-200c/141-associated epithelial mesenchyme transition through SH3-domain networks and contributes to benign and malignant wound-healing responses.
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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