RT1-AW2 siRNA – Class I Histocompatibility Antigen, Non-Rt1.a Alpha-1 Chain (Rat)

PRODUCT OVERVIEW

Product Name	RT1-AW2, siRNA
Full Product Name	RT1-AW2 siRNA (Rat)
Product Gene Name	RT1-AW2 sirna
Product Synonym Names	Class I histocompatibility antigen Non-RT1.A alpha-1 chain
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RT1-AW2 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	36,570 Da
3D Structure	ModBase 3D Structure for P15978
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 RT1-AW2 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 RT1-AW2 sirna	RNA Interference (RNAi)
Related Product Information for RT1-AW2 sirna	MBS8215962 is an siRNA targeting RT1-AW2. Also known as RT1-AW2 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit RT1-AW2 expression using RNA interference
Other Notes	Small volumes of RT1-AW2 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 RT1-AW2. It may not necessarily be applicable to this product.

NCBI GI #	6981494

NCBI GeneID	24737
NCBI Accession #	NP_036777.1
UniProt Primary Accession #	P15978
UniProt Related Accession #	P15978; P16391
GenBank Nucleotide #	NM_012645.1
NCBI Official Full Name	class I histocompatibility antigen, Non-RT1.A alpha-1 chain
NCBI Official Synonym Full Names	RT1 class Ib, locus EC2
NCBI Official Symbol	RT1-EC2
NCBI Official Synonym Symbols	RTS; RT1-A; MHCRTA; RT1.Al; RT1Aw2; RT1-Aw2; RT1.EC2; RATMHCRTA
UniProt Protein Name	Class I histocompatibility antigen, Non-RT1.A alpha-1 chain
Protein Family	Class I histocompatibility antigen
UniProt Gene Name	RT1-Aw2
UniProt Entry Name	HA11_RAT
NCBI Protein Information	class I histocompatibility antigen, Non-RT1.A alpha-1 chain
NCBI Summary for RT1-AW2	a class Ib gene of the rat major histocompatibility complex [RGD, Feb 2006]
UniProt Comments for RT1-AW2	Involved in the presentation of foreign antigens to the immune system.
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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