RHD siRNA – Blood Group Rh(d) Polypeptide (Rat)

PRODUCT OVERVIEW

Product Name	RHD, siRNA
Full Product Name	RHD siRNA (Rat)
Product Gene Name	RHD sirna
Product Synonym Names	RH30; RHCED; Blood group Rh(D) polypeptide; Erythrocyte membrane glycoprotein Rh30; CD antigen CD240D
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RHD 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	46,583 Da
3D Structure	ModBase 3D Structure for O88298
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 RHD 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 RHD sirna	RNA Interference (RNAi)
Related Product Information for RHD sirna	MBS8233698 is an siRNA targeting RHD. Also known as RHD siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit RHD expression using RNA interference
Other Notes	Small volumes of RHD 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 RHD. It may not necessarily be applicable to this product.

NCBI GI #	11968076
NCBI GeneID	60414

NCBI Accession #	NP_071950.1
UniProt Primary Accession #	O88298
UniProt Related Accession #	O88298
GenBank Nucleotide #	NM_022505.2
NCBI Official Full Name	blood group Rh(D) polypeptide
NCBI Official Synonym Full Names	Rh blood group, D antigen
NCBI Official Symbol	Rhd
NCBI Official Synonym Symbols	Rh; Rhced
UniProt Protein Name	Blood group Rh(D) polypeptide
UniProt Synonym Protein Names	Erythrocyte membrane glycoprotein Rh30; CD_antigen: CD240D
UniProt Gene Name	Rhd
UniProt Synonym Gene Names	Rh30; Rhced
UniProt Entry Name	RHD_RAT
NCBI Protein Information	blood group Rh(D) polypeptide
NCBI Summary for RHD	blood group gene; produces antigens on the surface of erythrocytes [RGD, Feb 2006]
UniProt Comments for RHD	May be part of an oligomeric complex which is likely to have a transport or channel function in the erythrocyte membrane.
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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