FCGRT siRNA – IgG Receptor Fcrn Large Subunit P51 (Mouse)

PRODUCT OVERVIEW

Product Name	FCGRT, siRNA
Full Product Name	FCGRT siRNA (Mouse)
Product Gene Name	FCGRT sirna
Product Synonym Names	FCRN; IgG receptor FcRn large subunit p51; FcRn; IgG Fc fragment receptor transporter alpha chain; Neonatal Fc receptor
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FCGRT 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	40,093 Da
3D Structure	ModBase 3D Structure for Q61559
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 FCGRT 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 FCGRT sirna	RNA Interference (RNAi)
Related Product Information for FCGRT sirna	MBS8216919 is an siRNA targeting FCGRT. Also known as FCGRT siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit FCGRT expression using RNA interference
Other Notes	Small volumes of FCGRT 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 FCGRT. It may not necessarily be applicable to this product.

NCBI GI #	170172528
NCBI GeneID	14132
NCBI Accession #	NP_034319.2
UniProt Primary Accession #	Q61559
UniProt Secondary Accession #	Q9QUR0; Q9R2A5
UniProt Related Accession #	Q61559
GenBank Nucleotide #	NM_010189.3
NCBI Official Full Name	IgG receptor FcRn large subunit p51
NCBI Official Synonym Full Names	Fc receptor, IgG, alpha chain transporter
NCBI Official Symbol	Fcgrt
NCBI Official Synonym Symbols	FcRn
UniProt Protein Name	IgG receptor FcRn large subunit p51
UniProt Synonym Protein Names	IgG Fc fragment receptor transporter alpha chain; Neonatal Fc receptor
Protein Family	IgG receptor
UniProt Gene Name	Fcgrt
UniProt Synonym Gene Names	Fcrn; FcRn
UniProt Entry Name	FCGRN_MOUSE
NCBI Protein Information	IgG receptor FcRn large subunit p51
UniProt Comments for FCGRT	FCGRT: Binds to the Fc region of monomeric immunoglobulins gamma. Mediates the uptake of IgG from milk. Possible role in transfer of immunoglobulin G from mother to fetus. Belongs to the immunoglobulin superfamily. Protein type: Receptor, misc.; Immunoglobulin superfamily; Membrane protein, integral Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: IgG binding; beta-2-microglobulin binding; IgG receptor activity; antigen binding Biological Process: antigen processing and presentation; immune response
Research Articles on FCGRT	**1.** Characterization and screening of IgG binding to the neonatal Fc receptor.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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