RFT1 siRNA – Protein RFT1 Homolog (Mouse)

PRODUCT OVERVIEW

Product Name	RFT1, siRNA
Full Product Name	RFT1 siRNA (Mouse)
Product Gene Name	RFT1 sirna
Product Synonym Names	Protein RFT1 homolog
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RFT1 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	24,460 Da
3D Structure	ModBase 3D Structure for Q8C3B8
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 RFT1 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 RFT1 sirna	RNA Interference (RNAi)
Related Product Information for RFT1 sirna	MBS8219391 is an siRNA targeting RFT1. Also known as RFT1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RFT1 expression using RNA interference
Other Notes	Small volumes of RFT1 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 RFT1. It may not necessarily be applicable to this product.

NCBI GI #	87299621

NCBI GeneID	328370
NCBI Accession #	NP_808483.2
UniProt Primary Accession #	Q8C3B8
UniProt Secondary Accession #	B2RUN9
UniProt Related Accession #	Q8C3B8
GenBank Nucleotide #	NM_177815.3
NCBI Official Full Name	protein RFT1 homolog
NCBI Official Synonym Full Names	RFT1 homolog (S. cerevisiae)
NCBI Official Symbol	Rft1
NCBI Official Synonym Symbols	D930025H04
UniProt Protein Name	Protein RFT1 homolog
Protein Family	Oligosaccharide translocation protein
UniProt Gene Name	Rft1
UniProt Entry Name	RFT1_MOUSE
NCBI Protein Information	protein RFT1 homolog
UniProt Comments for RFT1	RFT1: May be involved in N-linked oligosaccharide assembly. May participate in the translocation of oligosaccharide from the cytoplasmic side to the lumenal side of the endoplasmic reticulum membrane. Defects in RFT1 are the cause of congenital disorder of glycosylation type 1N (CDG1N). CDGs are a genetically heterogeneous group of autosomal recessive disorders caused by enzymatic defects in the synthesis and processing of asparagine (N)-linked glycans or oligosaccharides on glycoproteins. CDGs present with a wide variety of clinical features, such as disorders of the nervous system development, psychomotor retardation, dysmorphic features, hypotonia, coagulation disorders, and immunodeficiency. Type 1 CDGs comprise defects in the assembly of the dolichol lipid-linked oligosaccharide chain and its transfer to the nascent protein. These disorders can be identified by a characteristic abnormal isoelectric focusing profile of plasma transferrin. Belongs to the RFT1 family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Glycan Metabolism - N-glycan biosynthesis; Transporter Cellular Component: endoplasmic reticulum membrane; membrane; integral to membrane Molecular Function: lipid transporter activity Biological Process: transport; carbohydrate transport; lipid transport; glycolipid translocation
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