ENO4 siRNA – Enolase-Like Protein ENO4 (Mouse)

PRODUCT OVERVIEW

Product Name	ENO4, siRNA
Full Product Name	ENO4 siRNA (Mouse)
Product Gene Name	ENO4 sirna
Product Synonym Names	Enolase-like protein ENO4
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ENO4 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	63,936 Da
3D Structure	ModBase 3D Structure for Q8C042
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 ENO4 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 ENO4 sirna	RNA Interference (RNAi)
Related Product Information for ENO4 sirna	MBS8203054 is an siRNA targeting ENO4. Also known as ENO4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit ENO4 expression using RNA interference
Other Notes	Small volumes of ENO4 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 ENO4. It may not necessarily be applicable to this product.

NCBI GI #	160420337

NCBI GeneID	226265
NCBI Accession #	NP_848804.2
UniProt Primary Accession #	Q8C042
UniProt Secondary Accession #	Q8BVS9; Q8CFL9; E9QLA7
UniProt Related Accession #	Q8C042
GenBank Nucleotide #	NM_178689.4
NCBI Official Full Name	enolase-like protein ENO4
NCBI Official Synonym Full Names	enolase 4
NCBI Official Symbol	Eno4
NCBI Official Synonym Symbols	6430537H07Rik
UniProt Protein Name	Enolase-like protein ENO4
Protein Family	Enolase
UniProt Gene Name	Eno4
UniProt Entry Name	ENO4_MOUSE
NCBI Protein Information	enolase-like protein ENO4
UniProt Comments for ENO4	ENO4: Belongs to the enolase family. 2 isoforms of the human protein are produced by alternative splicing Protein type: Lyase Cellular Component: phosphopyruvate hydratase complex Molecular Function: protein binding; protein heterodimerization activity; magnesium ion binding; phosphopyruvate hydratase activity Biological Process: sperm motility; glycolysis
Research Articles on ENO4	**1.** ENO4 is required for normal assembly of the fibrous sheath and provides most of the enolase activity in sperm.
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