HENMT1 siRNA – Small RNA 2'-O-Methyltransferase (Mouse)

PRODUCT OVERVIEW

Product Name	HENMT1, siRNA
Full Product Name	HENMT1 siRNA (Mouse)
Product Gene Name	HENMT1 sirna
Product Synonym Names	Small RNA 2'-O-methyltransferase; HEN1 methyltransferase homolog 1; mHEN1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HENMT1 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	39,806 Da
3D Structure	ModBase 3D Structure for Q8CAE2
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 HENMT1 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 HENMT1 sirna	RNA Interference (RNAi)
Related Product Information for HENMT1 sirna	MBS8218909 is an siRNA targeting HENMT1. Also known as HENMT1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit HENMT1 expression using RNA interference
Other Notes	Small volumes of HENMT1 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 HENMT1. It may not necessarily be applicable to this product.

NCBI GI #	118403306

NCBI GeneID	66715
NCBI Accession #	NP_001072114.1
UniProt Primary Accession #	Q8CAE2
UniProt Secondary Accession #	Q8C3K8; A2VCS5
UniProt Related Accession #	Q8CAE2
GenBank Nucleotide #	NM_001078646.1
NCBI Official Full Name	small RNA 2'-O-methyltransferase
NCBI Official Synonym Full Names	HEN1 methyltransferase homolog 1 (Arabidopsis)
NCBI Official Symbol	Henmt1
NCBI Official Synonym Symbols	Hen1; mHEN1; 4921515J06Rik
UniProt Protein Name	Small RNA 2'-O-methyltransferase
UniProt Synonym Protein Names	HEN1 methyltransferase homolog 1; mHEN1
UniProt Gene Name	Henmt1
UniProt Synonym Gene Names	mHEN1
UniProt Entry Name	HENMT_MOUSE
NCBI Protein Information	small RNA 2'-O-methyltransferase
UniProt Comments for HENMT1	HENMT1: Methyltransferase that adds a 2'-O-methyl group at the 3'-end of piRNAs, a class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements. This probably protects the 3'-end of piRNAs from uridylation activity and subsequent degradation. Stabilization of piRNAs is essential for gametogenesis. Belongs to the methyltransferase superfamily. HEN1 family. Protein type: EC 2.1.1.n8 Cellular Component: cytoplasm Molecular Function: transferase activity; methyltransferase activity; RNA binding; metal ion binding; RNA methyltransferase activity; O-methyltransferase activity Biological Process: methylation; RNA methylation; RNA-mediated gene silencing
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