ERH siRNA – Enhancer of Rudimentary Homolog (Human)

PRODUCT OVERVIEW

Product Name	ERH, siRNA
Full Product Name	ERH siRNA (Human)
Product Gene Name	ERH sirna
Product Synonym Names	Enhancer of rudimentary homolog
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ERH siRNA (Human) 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	12,259 Da
OMIM	601191
3D Structure	ModBase 3D Structure for P84090
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 human ERH 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 ERH sirna	RNA Interference (RNAi)
Related Product Information for ERH sirna	MBS8238412 is an siRNA targeting ERH. Also known as ERH siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ERH expression using RNA interference
Other Notes	Small volumes of ERH 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 ERH. It may not necessarily be applicable to this product.

NCBI GI #	4758302
NCBI GeneID	2079
NCBI Accession #	NP_004441.1
UniProt Primary Accession #	P84090
UniProt Secondary Accession #	P70659; Q14259; B2R5H2
UniProt Related Accession #	P84090
GenBank Nucleotide #	NM_004450.2
NCBI Official Full Name	enhancer of rudimentary homolog
NCBI Official Synonym Full Names	enhancer of rudimentary homolog (Drosophila)
NCBI Official Symbol	ERH
NCBI Official Synonym Symbols	DROER
UniProt Protein Name	Enhancer of rudimentary homolog
Protein Family	Enhancer of rudimentary
UniProt Gene Name	ERH
UniProt Entry Name	ERH_HUMAN
NCBI Protein Information	enhancer of rudimentary homolog
UniProt Comments for ERH	ERH: May have a role in the cell cycle. Belongs to the E(R) family. Protein type: Unknown function Chromosomal Location of Human Ortholog: 14q24.1 Cellular Component: membrane; midbody Biological Process: osteoblast differentiation; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; cell cycle; pyrimidine nucleoside metabolic process
Research Articles on ERH	**1.** REVIEW: recent findings indicate that ERH plays an important role in cell cycle through its mRNA splicing activity and is critically required for genomic stability and cancer cell survival
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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