ERI2 siRNA – ERI1 Exoribonuclease 2 Isoform 1 (Human)

PRODUCT OVERVIEW

Product Name	ERI2, siRNA
Full Product Name	ERI2 siRNA (Human)
Product Gene Name	ERI2 sirna
Product Synonym Names	EXOD1; KIAA1504; ERI1 exoribonuclease 2; Exonuclease domain-containing protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ERI2 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	37,479 Da
3D Structure	ModBase 3D Structure for A8K979
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 ERI2 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 ERI2 sirna	RNA Interference (RNAi)
Related Product Information for ERI2 sirna	MBS8221155 is an siRNA targeting ERI2. Also known as ERI2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ERI2 expression using RNA interference
Other Notes	Small volumes of ERI2 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 ERI2. It may not necessarily be applicable to this product.

NCBI GI #	218505680

NCBI GeneID	112479
NCBI Accession #	NP_001136197.1
UniProt Primary Accession #	A8K979
UniProt Secondary Accession #	Q6ZSJ2; Q96FR9; Q9P224; Q9Y6V3
UniProt Related Accession #	A8K979
GenBank Nucleotide #	NM_001142725.1
NCBI Official Full Name	ERI1 exoribonuclease 2 isoform 1
NCBI Official Synonym Full Names	ERI1 exoribonuclease family member 2
NCBI Official Symbol	ERI2
NCBI Official Synonym Symbols	EXOD1; ZGRF5
UniProt Protein Name	ERI1 exoribonuclease 2
UniProt Synonym Protein Names	Exonuclease domain-containing protein 1
Protein Family	ERI1 exoribonuclease
UniProt Gene Name	ERI2
UniProt Synonym Gene Names	EXOD1; KIAA1504
UniProt Entry Name	ERI2_HUMAN
NCBI Protein Information	ERI1 exoribonuclease 2
UniProt Comments for ERI2	ERI2: Belongs to the ERI2 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.-.-; Hydrolase Chromosomal Location of Human Ortholog: 16p12.3 Cellular Component: cytoplasm; nucleolus Molecular Function: 3'-5'-exoribonuclease activity; nucleic acid binding; zinc ion binding
Research Articles on ERI2	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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