HIST1H4E siRNA – Histone H4 (Human)

PRODUCT OVERVIEW

Product Name	HIST1H4E, siRNA
Full Product Name	HIST1H4E siRNA (Human)
Product Gene Name	HIST1H4E sirna
Product Synonym Names	H4/E; H4FE; Histone H4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HIST1H4E 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	11,367 Da
OMIM	142750
3D Structure	ModBase 3D Structure for P62805
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 HIST1H4E 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 HIST1H4E sirna	RNA Interference (RNAi)
Related Product Information for HIST1H4E sirna	MBS8207396 is an siRNA targeting HIST1H4E. Also known as HIST1H4E siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HIST1H4E expression using RNA interference
Other Notes	Small volumes of HIST1H4E 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 HIST1H4E. It may not necessarily be applicable to this product.

NCBI GI #	77539758
NCBI GeneID	554313
NCBI Accession #	NP_001029249.1
UniProt Primary Accession #	P62805
UniProt Secondary Accession #	P02304; P02305; Q6DRA9; Q6FGB8; Q6NWP7; A2VCL0
UniProt Related Accession #	P62805
GenBank Nucleotide #	NM_001034077.4
NCBI Official Full Name	histone H4
NCBI Official Synonym Full Names	histone cluster 2, H4b
NCBI Official Symbol	HIST2H4B
NCBI Official Synonym Symbols	H4/o
UniProt Protein Name	Histone H4
UniProt Gene Name	HIST1H4A
UniProt Synonym Gene Names	H4/A; H4FA
UniProt Entry Name	H4_HUMAN
NCBI Protein Information	histone H4
NCBI Summary for HIST1H4E	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the telomeric copy. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST1H4E	H4: histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The gene encoding H4 is intronless. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p22.2 Cellular Component: nucleoplasm; nuclear chromosome; protein complex; membrane; extracellular region; nucleosome; nucleus Molecular Function: protein binding; DNA binding; histone binding; protein heterodimerization activity Biological Process: chromatin silencing at rDNA; establishment and/or maintenance of chromatin architecture; regulation of gene expression, epigenetic; DNA replication-dependent nucleosome assembly; negative regulation of megakaryocyte differentiation; nucleosome assembly; DNA replication-independent nucleosome assembly at centromere; DNA replication-independent nucleosome assembly; negative regulation of gene expression, epigenetic; protein heterotetramerization; gene expression; mitotic cell cycle; telomere maintenance; DNA methylation on cytosine
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