HMGB4 siRNA – High Mobility Group Protein B4 (Human)

PRODUCT OVERVIEW

Product Name	HMGB4, siRNA
Full Product Name	HMGB4 siRNA (Human)
Product Gene Name	HMGB4 sirna
Product Synonym Names	High mobility group protein B4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HMGB4 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	22,490 Da
3D Structure	ModBase 3D Structure for Q8WW32
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 HMGB4 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 HMGB4 sirna	RNA Interference (RNAi)
Related Product Information for HMGB4 sirna	MBS8201274 is an siRNA targeting HMGB4. Also known as HMGB4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HMGB4 expression using RNA interference
Other Notes	Small volumes of HMGB4 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 HMGB4. It may not necessarily be applicable to this product.

NCBI GI #	57232750

NCBI GeneID	127540
NCBI Accession #	NP_660206.2
UniProt Primary Accession #	Q8WW32
UniProt Secondary Accession #	Q0QWA4; B2R4X7
UniProt Related Accession #	Q8WW32
GenBank Nucleotide #	NM_145205.5
NCBI Official Full Name	high mobility group protein B4
NCBI Official Synonym Full Names	high mobility group box 4
NCBI Official Symbol	HMGB4
NCBI Official Synonym Symbols	dJ1007G16.5
UniProt Protein Name	High mobility group protein B4
Protein Family	High mobility group B protein
UniProt Gene Name	HMGB4
UniProt Entry Name	HMGB4_HUMAN
NCBI Protein Information	high mobility group protein B4
UniProt Comments for HMGB4	HMGB4: Belongs to the HMGB family. Chromosomal Location of Human Ortholog: 1p35.1 Cellular Component: chromosome; nucleus Molecular Function: DNA binding; chromatin binding Biological Process: chromatin remodeling; regulation of transcription, DNA-dependent
Research Articles on HMGB4	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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