ZNF445 siRNA – Zinc Finger Protein 445 (Human)

PRODUCT OVERVIEW

Product Name	ZNF445, siRNA
Full Product Name	ZNF445 siRNA (Human)
Product Gene Name	ZNF445 sirna
Product Synonym Names	ZKSCAN15; ZNF168; Zinc finger protein 445; Zinc finger protein 168; Zinc finger protein with KRAB and SCAN domains 15
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ZNF445 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	118,963 Da
3D Structure	ModBase 3D Structure for P59923
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 ZNF445 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 ZNF445 sirna	RNA Interference (RNAi)
Related Product Information for ZNF445 sirna	MBS8207697 is an siRNA targeting ZNF445. Also known as ZNF445 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ZNF445 expression using RNA interference
Other Notes	Small volumes of ZNF445 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 ZNF445. It may not necessarily be applicable to this product.

NCBI GI #	31340735
NCBI GeneID	353274
NCBI Accession #	NP_852466.1
UniProt Primary Accession #	P59923
UniProt Secondary Accession #	Q3MJD1
UniProt Related Accession #	P59923
GenBank Nucleotide #	NM_181489.5
NCBI Official Full Name	zinc finger protein 445
NCBI Official Synonym Full Names	zinc finger protein 445
NCBI Official Symbol	ZNF445
NCBI Official Synonym Symbols	ZNF168; ZSCAN47; ZKSCAN15
UniProt Protein Name	Zinc finger protein 445
UniProt Synonym Protein Names	Zinc finger protein 168; Zinc finger protein with KRAB and SCAN domains 15
Protein Family	Zinc finger protein
UniProt Gene Name	ZNF445
UniProt Synonym Gene Names	ZKSCAN15; ZNF168
UniProt Entry Name	ZN445_HUMAN
NCBI Protein Information	zinc finger protein 445
UniProt Comments for ZNF445	ZNF445: May be involved in transcriptional regulation. Belongs to the krueppel C2H2-type zinc-finger protein family. Protein type: DNA-binding; C2H2-type zinc finger protein; Transcription factor Chromosomal Location of Human Ortholog: 3p21.32 Cellular Component: nucleus Molecular Function: DNA binding; metal ion binding; transcription factor activity Biological Process: transcription, DNA-dependent; regulation of transcription, DNA-dependent
Research Articles on ZNF445	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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