IKZF4 siRNA – Zinc Finger Protein Eos (Mouse)

PRODUCT OVERVIEW

Product Name	IKZF4, siRNA
Full Product Name	IKZF4 siRNA (Mouse)
Product Gene Name	IKZF4 sirna
Product Synonym Names	ZFPN1A4; Zinc finger protein Eos; Ikaros family zinc finger protein 4
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	IKZF4 siRNA (Mouse) 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	75,075 Da
3D Structure	ModBase 3D Structure for Q8C208
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 mouse IKZF4 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 IKZF4 sirna	RNA Interference (RNAi)
Related Product Information for IKZF4 sirna	MBS8209460 is an siRNA targeting IKZF4. Also known as IKZF4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit IKZF4 expression using RNA interference
Other Notes	Small volumes of IKZF4 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 IKZF4. It may not necessarily be applicable to this product.

NCBI GI #	122114637

NCBI GeneID	22781
NCBI Accession #	NP_035902.2
UniProt Primary Accession #	Q8C208
UniProt Secondary Accession #	Q3TCZ7; Q9Z2Z2; B9EJ21
UniProt Related Accession #	Q8C208
GenBank Nucleotide #	NM_011772.2
NCBI Official Full Name	zinc finger protein Eos
NCBI Official Synonym Full Names	IKAROS family zinc finger 4
NCBI Official Symbol	Ikzf4
NCBI Official Synonym Symbols	Eos; Zfpn1a4; Znfn1a4; A630026H08Rik
UniProt Protein Name	Zinc finger protein Eos
UniProt Synonym Protein Names	Ikaros family zinc finger protein 4
Protein Family	Zinc finger protein
UniProt Gene Name	Ikzf4
UniProt Synonym Gene Names	Zfpn1a4
UniProt Entry Name	IKZF4_MOUSE
NCBI Protein Information	zinc finger protein Eos
UniProt Comments for IKZF4	IKZF4: DNA-binding protein that binds to the 5'GGGAATRCC-3' Ikaros-binding sequence. Transcriptional repressor. Interacts with SPI1 and MITF to repress transcription of the CTSK and ACP5 promoters via recruitment of corepressors SIN3A and CTBP2. May be involved in the development of central and peripheral nervous systems. Belongs to the Ikaros C2H2-type zinc-finger protein family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; C2H2-type zinc finger protein; DNA-binding Cellular Component: nucleus Molecular Function: protein binding; protein homodimerization activity; DNA binding; nucleic acid binding; protein heterodimerization activity; sequence-specific DNA binding; metal ion binding; bHLH transcription factor binding Biological Process: regulation of transcription, DNA-dependent; transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent
Research Articles on IKZF4	**1.** Data indicate that miR-17 promotes TH17 differentiation by repressing target Ikaros Family Zinc Finger 4 (IKZF4).
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