HAVCR1 siRNA – Hepatitis A Virus Cellular Receptor 1 Isoform a (Human)

PRODUCT OVERVIEW

Product Name	HAVCR1, siRNA
Full Product Name	HAVCR1 siRNA (Human)
Product Gene Name	HAVCR1 sirna
Product Synonym Names	KIM1; TIM1; TIMD1; Hepatitis A virus cellular receptor 1; HAVcr-1; Kidney injury molecule 1; KIM-1; T-cell immunoglobulin and mucin domain-containing protein 1; TIMD-1; T-cell immunoglobulin mucin receptor 1; TIM; TIM-1; T-cell membrane protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HAVCR1 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	38,720 Da
OMIM	606518
3D Structure	ModBase 3D Structure for Q96D42
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 HAVCR1 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 HAVCR1 sirna	RNA Interference (RNAi)
Related Product Information for HAVCR1 sirna	MBS8218731 is an siRNA targeting HAVCR1. Also known as HAVCR1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HAVCR1 expression using RNA interference
Other Notes	Small volumes of HAVCR1 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 HAVCR1. It may not necessarily be applicable to this product.

NCBI GI #	290560750
NCBI GeneID	26762
NCBI Accession #	NP_001166864.1
UniProt Primary Accession #	Q96D42
UniProt Secondary Accession #	O43656
UniProt Related Accession #	Q96D42
GenBank Nucleotide #	NM_001173393.2
NCBI Official Full Name	hepatitis A virus cellular receptor 1 isoform a
NCBI Official Synonym Full Names	hepatitis A virus cellular receptor 1
NCBI Official Symbol	HAVCR1
NCBI Official Synonym Symbols	TIM; KIM1; TIM1; CD365; HAVCR; KIM-1; TIM-1; TIMD1; TIMD-1; HAVCR-1
UniProt Protein Name	Hepatitis A virus cellular receptor 1
UniProt Synonym Protein Names	Kidney injury molecule 1; KIM-1; T-cell immunoglobulin and mucin domain-containing protein 1; TIMD-1; T-cell immunoglobulin mucin receptor 1; TIM; TIM-1; T-cell membrane protein 1
Protein Family	Hepatitis A virus cellular receptor
UniProt Gene Name	HAVCR1
UniProt Synonym Gene Names	KIM1; TIM1; TIMD1; HAVcr-1; KIM-1; TIMD-1; TIM; TIM-1
UniProt Entry Name	HAVR1_HUMAN
NCBI Protein Information	hepatitis A virus cellular receptor 1
NCBI Summary for HAVCR1	The protein encoded by this gene is a membrane receptor for both human hepatitis A virus (HHAV) and TIMD4. The encoded protein may be involved in the moderation of asthma and allergic diseases. The reference genome represents an allele that retains a MTTVP amino acid segment that confers protection against atopy in HHAV seropositive individuals. Alternative splicing of this gene results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 4, 12 and 19. [provided by RefSeq, Apr 2015]
UniProt Comments for HAVCR1	TIM-1: May play a role in T-helper cell development and the regulation of asthma and allergic diseases. Receptor for TIMD4. In case of human hepatitis A virus (HHAV) infection, functions as a cell-surface receptor for the virus. May play a role in kidney injury and repair. Belongs to the immunoglobulin superfamily. TIM family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 5q33.2 Cellular Component: integral to membrane Molecular Function: viral receptor activity Biological Process: entry of virus into host cell Disease: Ige Responsiveness, Atopic
Research Articles on HAVCR1	**1.** early urinary biomarker in the diagnosis of septic acute kidney injury

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