SELV siRNA – Selenoprotein V (Human)

PRODUCT OVERVIEW

Product Name	SELV, siRNA
Full Product Name	SELV siRNA (Human)
Product Gene Name	SELV sirna
Product Synonym Names	Selenoprotein V; SelV
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SELV 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	36,800 Da
OMIM	607919
3D Structure	ModBase 3D Structure for P59797
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 SELV 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 SELV sirna	RNA Interference (RNAi)
Related Product Information for SELV sirna	MBS8236787 is an siRNA targeting SELV. Also known as SELV siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SELV expression using RNA interference
Other Notes	Small volumes of SELV 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 SELV. It may not necessarily be applicable to this product.

NCBI GI #	33186895
NCBI GeneID	348303
NCBI Accession #	NP_874363.1
UniProt Primary Accession #	P59797
UniProt Secondary Accession #	Q17RG5
UniProt Related Accession #	P59797
GenBank Nucleotide #	NM_182704.1
NCBI Official Full Name	selenoprotein V
NCBI Official Symbol	SELV
UniProt Protein Name	Selenoprotein V
Protein Family	Selenoprotein
UniProt Gene Name	SELV
UniProt Synonym Gene Names	SelV
UniProt Entry Name	SELV_HUMAN
NCBI Protein Information	selenoprotein V
NCBI Summary for SELV	This gene encodes a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. [provided by RefSeq, Jul 2008]
UniProt Comments for SELV	SELV: May be involved in a redox-related process (Potential). Belongs to the SelWTH family. Chromosomal Location of Human Ortholog: 19q13.2 Molecular Function: selenium binding Biological Process: cell redox homeostasis
Research Articles on SELV	**1.** Observational study of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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