ISG20 siRNA – Interferon-Stimulated Gene 20 Kda Protein Isoform B (Mouse)

PRODUCT OVERVIEW

Product Name	ISG20, siRNA
Full Product Name	ISG20 siRNA (Mouse)
Product Gene Name	ISG20 sirna
Product Synonym Names	Interferon-stimulated gene 20 kDa protein; Promyelocytic leukemia nuclear body-associated protein ISG20; Protein DnaQL
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ISG20 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	20,583 Da
3D Structure	ModBase 3D Structure for Q9JL16
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 ISG20 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 ISG20 sirna	RNA Interference (RNAi)
Related Product Information for ISG20 sirna	MBS8239000 is an siRNA targeting ISG20. Also known as ISG20 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit ISG20 expression using RNA interference
Other Notes	Small volumes of ISG20 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 ISG20. It may not necessarily be applicable to this product.

NCBI GI #	165377193

NCBI GeneID	57444
NCBI Accession #	NP_001106999.1
UniProt Primary Accession #	Q9JL16
UniProt Secondary Accession #	Q9CPZ5
UniProt Related Accession #	Q9JL16
GenBank Nucleotide #	NM_001113527.1
NCBI Official Full Name	interferon-stimulated gene 20 kDa protein isoform b
NCBI Official Synonym Full Names	interferon-stimulated protein
NCBI Official Symbol	Isg20
NCBI Official Synonym Symbols	20kDa; DnaQL; HEM45; 1600023I01Rik; 2010107M23Rik
UniProt Protein Name	Interferon-stimulated gene 20 kDa protein
UniProt Synonym Protein Names	Promyelocytic leukemia nuclear body-associated protein ISG20; Protein DnaQL
Protein Family	Interferon-stimulated gene 20 kDa protein
UniProt Gene Name	Isg20
UniProt Entry Name	ISG20_MOUSE
NCBI Protein Information	interferon-stimulated gene 20 kDa protein
UniProt Comments for ISG20	ISG20: Exonuclease with specificity for single-stranded RNA and, to a lesser extent for DNA. Degrades RNA at a rate that is approximately 35-fold higher than its rate for single-stranded DNA. Involved in the antiviral function of IFN against RNA viruses. Belongs to the exonuclease superfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Deoxyribonuclease; Nucleolus; EC 3.1.13.1; Ribonuclease Cellular Component: Cajal body; PML body; cytoplasm; nucleolus; nucleus Molecular Function: exoribonuclease II activity; 3'-5'-exoribonuclease activity; nuclease activity; U1 snRNA binding; nucleic acid binding; hydrolase activity; RNA binding; metal ion binding; exonuclease activity; single-stranded DNA specific 3'-5' exodeoxyribonuclease activity; U2 snRNA binding Biological Process: negative regulation of viral genome replication; immune system process; response to virus; RNA catabolic process; innate immune response; DNA catabolic process, exonucleolytic; defense response to virus; rRNA processing
Research Articles on ISG20	**1.** Suggest that the recruitment of peripheral CXCR4-expressing ITGA2(+)ISG20(+) NK cells into pregnant uteri may be important in the regulation of feto-maternal tolerance.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/mouse-sirna/isg20/8239000