AIMP2 siRNA – Aminoacyl Trna Synthase Complex-Interacting Multifunctional Protein 2 Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	AIMP2, siRNA
Full Product Name	AIMP2 siRNA (Mouse)
Product Gene Name	AIMP2 sirna
Product Synonym Names	JTV1; Aminoacyl tRNA synthase complex-interacting multifunctional protein 2; Multisynthase complex auxiliary component p38; Protein JTV-1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	AIMP2 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	35,378 Da
3D Structure	ModBase 3D Structure for Q8R010
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 AIMP2 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 AIMP2 sirna	RNA Interference (RNAi)
Related Product Information for AIMP2 sirna	MBS8215715 is an siRNA targeting AIMP2. Also known as AIMP2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit AIMP2 expression using RNA interference
Other Notes	Small volumes of AIMP2 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 AIMP2. It may not necessarily be applicable to this product.

NCBI GI #	288541337
NCBI GeneID	231872
NCBI Accession #	NP_001165617.1
UniProt Primary Accession #	Q8R010
UniProt Secondary Accession #	Q8R2Y6; E9QP67
UniProt Related Accession #	Q8R010
GenBank Nucleotide #	NM_001172146.1
NCBI Official Full Name	aminoacyl tRNA synthase complex-interacting multifunctional protein 2 isoform 1
NCBI Official Synonym Full Names	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2
NCBI Official Symbol	Aimp2
NCBI Official Synonym Symbols	Jtv1; AA407136; AA407225; Aimp2(p38)
UniProt Protein Name	Aminoacyl tRNA synthase complex-interacting multifunctional protein 2
UniProt Synonym Protein Names	Multisynthase complex auxiliary component p38; Protein JTV-1
Protein Family	Aminoacyl tRNA synthase complex-interacting multifunctional protein
UniProt Gene Name	Aimp2
UniProt Synonym Gene Names	Jtv1
UniProt Entry Name	AIMP2_MOUSE
NCBI Protein Information	aminoacyl tRNA synthase complex-interacting multifunctional protein 2
UniProt Comments for AIMP2	JTV1: Required for assembly and stability of the aminoacyl- tRNA synthase complex. Mediates ubiquitination and degradation of FUBP1, a transcriptional activator of MYC, leading to MYC down- regulation which is required for aveolar type II cell differentiation. Blocks MDM2-mediated ubiquitination and degradation of p53/TP53. Functions as a proapoptotic factor. Cellular Component: membrane; cytoplasm; nucleus Molecular Function: protein binding Biological Process: negative regulation of cell proliferation; translation; positive regulation of protein ubiquitination; apoptosis; multicellular organismal development; cell differentiation
Research Articles on AIMP2	**1.** functional significance of AIMP2 in determination of cell proliferation and death, and as a haploinsufficient tumor suppressor.
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