RASA2 siRNA – Ras Gtpase-Activating Protein 2 (Mouse)

PRODUCT OVERVIEW

Product Name	RASA2, siRNA
Full Product Name	RASA2 siRNA (Mouse)
Product Gene Name	RASA2 sirna
Product Synonym Names	Ras GTPase-activating protein 2; GAP1m
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RASA2 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	96,401 Da
3D Structure	ModBase 3D Structure for P58069
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 RASA2 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 RASA2 sirna	RNA Interference (RNAi)
Related Product Information for RASA2 sirna	MBS8209744 is an siRNA targeting RASA2. Also known as RASA2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RASA2 expression using RNA interference
Other Notes	Small volumes of RASA2 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 RASA2. It may not necessarily be applicable to this product.

NCBI GI #	114158699

NCBI GeneID	114713
NCBI Accession #	NP_444498.2
UniProt Primary Accession #	P58069
UniProt Secondary Accession #	G3X918
UniProt Related Accession #	P58069
GenBank Nucleotide #	NM_053268.2
NCBI Official Full Name	ras GTPase-activating protein 2
NCBI Official Synonym Full Names	RAS p21 protein activator 2
NCBI Official Symbol	Rasa2
NCBI Official Synonym Symbols	GAP1m; AA517451; AU023900; 5430433H21Rik
UniProt Protein Name	Ras GTPase-activating protein 2
UniProt Synonym Protein Names	GAP1m
Protein Family	Ras GTPase-activating protein
UniProt Gene Name	Rasa2
UniProt Entry Name	RASA2_MOUSE
NCBI Protein Information	ras GTPase-activating protein 2
UniProt Comments for RASA2	RASA2: Inhibitory regulator of the Ras-cyclic AMP pathway. Binds inositol tetrakisphosphate (IP4). Protein type: GAPs; GAPs, Ras Cellular Component: membrane; cytoplasm; plasma membrane; intracellular Molecular Function: metal ion binding; GTPase activator activity Biological Process: regulation of GTPase activity; negative regulation of Ras protein signal transduction; signal transduction; positive regulation of GTPase activity
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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