MRGPRA1 siRNA – Mas-Related G-Protein Coupled Receptor Member A1 (Mouse)

PRODUCT OVERVIEW

Product Name	MRGPRA1, siRNA
Full Product Name	MRGPRA1 siRNA (Mouse)
Product Gene Name	MRGPRA1 sirna
Product Synonym Names	MRGA1; Mas-related G-protein coupled receptor member A1; RF-amide G-protein coupled receptor
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MRGPRA1 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	34,381 Da
3D Structure	ModBase 3D Structure for Q91WW5
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 MRGPRA1 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 MRGPRA1 sirna	RNA Interference (RNAi)
Related Product Information for MRGPRA1 sirna	MBS8227360 is an siRNA targeting MRGPRA1. Also known as MRGPRA1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MRGPRA1 expression using RNA interference
Other Notes	Small volumes of MRGPRA1 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 MRGPRA1. It may not necessarily be applicable to this product.

NCBI GI #	254692948

NCBI GeneID	233221
NCBI Accession #	NP_694735.2
UniProt Primary Accession #	Q91WW5
UniProt Secondary Accession #	A0JNS0
UniProt Related Accession #	Q91WW5
GenBank Nucleotide #	NM_153095.2
NCBI Official Full Name	mas-related G-protein coupled receptor member A1
NCBI Official Synonym Full Names	MAS-related GPR, member A1
NCBI Official Symbol	Mrgpra1
NCBI Official Synonym Symbols	MrgA1
UniProt Protein Name	Mas-related G-protein coupled receptor member A1
UniProt Synonym Protein Names	RF-amide G-protein coupled receptor
Protein Family	Mas-related G-protein coupled receptor
UniProt Gene Name	Mrgpra1
UniProt Synonym Gene Names	Mrga1
UniProt Entry Name	MRGA1_MOUSE
NCBI Protein Information	mas-related G-protein coupled receptor member A1
UniProt Comments for MRGPRA1	Orphan receptor activated by a subset of RFamide-family neuropeptides such as FLRF-amide and FMRF-amide. Mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Its effect is mediated by G(q) and G(11) proteins. May regulate the function of nociceptive neurons by modulation of pain perception.
Research Articles on MRGPRA1	**1.** is activated by RF-amide-related peptides through the Galpha q/11 pathway
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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