MRGPRB3 siRNA – Mas-Related G-Protein Coupled Receptor Member B3 (Mouse)

PRODUCT OVERVIEW

Product Name	MRGPRB3, siRNA
Full Product Name	MRGPRB3 siRNA (Mouse)
Product Gene Name	MRGPRB3 sirna
Product Synonym Names	MRGB3; Mas-related G-protein coupled receptor member B3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MRGPRB3 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	35,510 Da
3D Structure	ModBase 3D Structure for Q91ZC1
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 MRGPRB3 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 MRGPRB3 sirna	RNA Interference (RNAi)
Related Product Information for MRGPRB3 sirna	MBS8200038 is an siRNA targeting MRGPRB3. Also known as MRGPRB3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MRGPRB3 expression using RNA interference
Other Notes	Small volumes of MRGPRB3 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 MRGPRB3. It may not necessarily be applicable to this product.

NCBI GI #	46430530

NCBI GeneID	404238
NCBI Accession #	NP_997420.1
UniProt Primary Accession #	Q91ZC1
UniProt Secondary Accession #	Q3B813; Q3B814
UniProt Related Accession #	Q91ZC1
GenBank Nucleotide #	NM_207537.1
NCBI Official Full Name	mas-related G-protein coupled receptor member B3
NCBI Official Synonym Full Names	MAS-related GPR, member B3
NCBI Official Symbol	Mrgprb3
NCBI Official Synonym Symbols	MrgB3
UniProt Protein Name	Mas-related G-protein coupled receptor member B3
Protein Family	Mas-related G-protein coupled receptor
UniProt Gene Name	Mrgprb3
UniProt Synonym Gene Names	Mrgb3
UniProt Entry Name	MRGB3_MOUSE
NCBI Protein Information	mas-related G-protein coupled receptor member B3
UniProt Comments for MRGPRB3	Mrgprb3: Orphan receptor. Probably involved in the function of nociceptive neurons. May regulate nociceptor function and/or development, including the sensation or modulation of pain. Belongs to the G-protein coupled receptor 1 family. Mas subfamily. Protein type: Membrane protein, integral Cellular Component: membrane; integral to membrane Molecular Function: G-protein coupled receptor activity; signal transducer activity Biological Process: G-protein coupled receptor protein signaling pathway; signal transduction
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