MRGPRX2 siRNA – Mas-Related G-Protein Coupled Receptor Member X2 (Human)

PRODUCT OVERVIEW

Product Name	MRGPRX2, siRNA
Full Product Name	MRGPRX2 siRNA (Human)
Product Gene Name	MRGPRX2 sirna
Product Synonym Names	MRGX2; Mas-related G-protein coupled receptor member X2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MRGPRX2 siRNA (Human) 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	37,099 Da
OMIM	607228
3D Structure	ModBase 3D Structure for Q96LB1
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 human MRGPRX2 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 MRGPRX2 sirna	RNA Interference (RNAi)
Related Product Information for MRGPRX2 sirna	MBS8204715 is an siRNA targeting MRGPRX2. Also known as MRGPRX2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MRGPRX2 expression using RNA interference
Other Notes	Small volumes of MRGPRX2 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 MRGPRX2. It may not necessarily be applicable to this product.

NCBI GI #	746816153
NCBI GeneID	117194
NCBI Accession #	NP_001290544.1
UniProt Primary Accession #	Q96LB1
UniProt Secondary Accession #	Q4QXW4; Q4QXW7; Q4QXX0; Q4QXX2; Q4QXX3; Q4QXX4; Q4QXX6; Q4QXX7; B5B0C7; W8W3L5
UniProt Related Accession #	Q96LB1
GenBank Nucleotide #	NM_001303615.1
NCBI Official Full Name	mas-related G-protein coupled receptor member X2
NCBI Official Synonym Full Names	MAS-related GPR, member X2
NCBI Official Symbol	MRGPRX2
NCBI Official Synonym Symbols	MGRG3; MRGX2
UniProt Protein Name	Mas-related G-protein coupled receptor member X2
Protein Family	Mas-related G-protein coupled receptor
UniProt Gene Name	MRGPRX2
UniProt Synonym Gene Names	MRGX2
UniProt Entry Name	MRGX2_HUMAN
NCBI Protein Information	mas-related G-protein coupled receptor member X2
UniProt Comments for MRGPRX2	MRGPRX2: Orphan receptor. Probably involved in the function of nociceptive neurons. May regulate nociceptor function and/or development, including the sensation or modulation of pain. Cortistatin-14 seems to be a high potency ligand at this receptor. Cortistatin has several biological functions including roles in sleep regulation locomotor activity, and cortical function. In receptor-expressing cells, cortistatin-stimulated increases in intracellular Ca(2+) but had no effect on basal or forskolin- stimulated cAMP levels, suggesting that this receptor is G(q)-coupled. Belongs to the G-protein coupled receptor 1 family. Mas subfamily. Protein type: Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 1; Receptor, GPCR Chromosomal Location of Human Ortholog: 11p15.1 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; neuropeptide binding Biological Process: positive regulation of cytokinesis; G-protein coupled receptor protein signaling pathway; sleep; sensory perception of pain
Research Articles on MRGPRX2	**1.** contributes to larger and longer lasting wheal reactions to intradermally injected neuropeptides in patients with chronic urticaria
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