MCHR2 siRNA – Melanin-Concentrating Hormone Receptor 2 (Human)

PRODUCT OVERVIEW

Product Name	MCHR2, siRNA
Full Product Name	MCHR2 siRNA (Human)
Product Gene Name	MCHR2 sirna
Product Synonym Names	GPR145; SLT; Melanin-concentrating hormone receptor 2; MCH receptor 2; MCH-R2; MCHR-2; G-protein coupled receptor 145; GPRv17; MCH-2R; MCH2; MCH2R
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MCHR2 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	38,849 Da
OMIM	606111
3D Structure	ModBase 3D Structure for Q969V1
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 MCHR2 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 MCHR2 sirna	RNA Interference (RNAi)
Related Product Information for MCHR2 sirna	MBS8227244 is an siRNA targeting MCHR2. Also known as MCHR2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MCHR2 expression using RNA interference
Other Notes	Small volumes of MCHR2 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 MCHR2. It may not necessarily be applicable to this product.

NCBI GI #	93277083
NCBI GeneID	84539
NCBI Accession #	NP_001035269.1
UniProt Primary Accession #	Q969V1
UniProt Secondary Accession #	Q5VTV7; Q6Q377; Q9BXA8; B3KVW4; E1P5D7
UniProt Related Accession #	Q969V1
GenBank Nucleotide #	NM_001040179.1
NCBI Official Full Name	melanin-concentrating hormone receptor 2
NCBI Official Synonym Full Names	melanin-concentrating hormone receptor 2
NCBI Official Symbol	MCHR2
NCBI Official Synonym Symbols	SLT; MCH2; MCH2R; GPR145; GPRv17; MCH-2R; MCH-R2; MCHR-2
UniProt Protein Name	Melanin-concentrating hormone receptor 2
UniProt Synonym Protein Names	G-protein coupled receptor 145; GPRv17; MCH-2R; MCH2; MCH2R
Protein Family	Melanin-concentrating hormone receptor
UniProt Gene Name	MCHR2
UniProt Synonym Gene Names	GPR145; SLT; MCH receptor 2; MCH-R2; MCHR-2; MCH2; MCH2R
UniProt Entry Name	MCHR2_HUMAN
NCBI Protein Information	melanin-concentrating hormone receptor 2
UniProt Comments for MCHR2	MCHR2: Receptor for melanin-concentrating hormone, coupled to G proteins that activate phosphoinositide hydrolysis. Belongs to the G-protein coupled receptor 1 family. Protein type: Membrane protein, integral; GPCR, family 1; Receptor, GPCR; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 6q16 Cellular Component: integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity Biological Process: G-protein coupled receptor protein signaling pathway
Research Articles on MCHR2	**1.** Discovery and characterization of a potent and selective antagonist of melanin-concentrating hormone receptor 2
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