CLIC5 siRNA – Chloride Intracellular Channel Protein 5 (Mouse)

PRODUCT OVERVIEW

Product Name	CLIC5, siRNA
Full Product Name	CLIC5 siRNA (Mouse)
Product Gene Name	CLIC5 sirna
Product Synonym Names	Chloride intracellular channel protein 5
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CLIC5 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	28,287 Da
3D Structure	ModBase 3D Structure for Q8BXK9
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 CLIC5 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 CLIC5 sirna	RNA Interference (RNAi)
Related Product Information for CLIC5 sirna	MBS8218247 is an siRNA targeting CLIC5. Also known as CLIC5 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CLIC5 expression using RNA interference
Other Notes	Small volumes of CLIC5 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 CLIC5. It may not necessarily be applicable to this product.

NCBI GI #	27369886

NCBI GeneID	224796
NCBI Accession #	NP_766209.1
UniProt Primary Accession #	Q8BXK9
UniProt Secondary Accession #	Q3U0H8
UniProt Related Accession #	Q8BXK9
GenBank Nucleotide #	NM_172621.2
NCBI Official Full Name	chloride intracellular channel protein 5
NCBI Official Synonym Full Names	chloride intracellular channel 5
NCBI Official Symbol	Clic5
NCBI Official Synonym Symbols	jbg; Gm322; B330005L24; 5730531E12Rik
UniProt Protein Name	Chloride intracellular channel protein 5
Protein Family	Chloride intracellular channel protein
UniProt Gene Name	Clic5
UniProt Entry Name	CLIC5_MOUSE
NCBI Protein Information	chloride intracellular channel protein 5
UniProt Comments for CLIC5	CLIC5: Can insert into membranes and form poorly selective ion channels that may also transport chloride ions. May play a role in the regulation of transepithelial ion absorption and secretion. Required for normal formation of stereocilia in the inner ear and normal development of the organ of Corti. Is required for the development and/or maintenance of the proper glomerular endothelial cell and podocyte architecture. Belongs to the chloride channel CLIC family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis Cellular Component: Golgi apparatus; stereocilium; cytoskeleton; stereocilium bundle; membrane; cytoplasm; integral to membrane; actin cytoskeleton Molecular Function: chloride channel activity; voltage-gated ion channel activity Biological Process: response to dietary excess; protein localization; diet induced thermogenesis; sensory perception of sound; transport; ion transport; chloride transport; auditory receptor cell stereocilium organization and biogenesis; neuromuscular process controlling balance
Research Articles on CLIC5	**1.** Biochemical assays showed interaction of CLIC5 with ERM proteins, TPRN, and possibly myosin VI (MYO6). In addition, CLIC5 and RDX failed to localize normally in fused stereocilia of MYO6 mutant mice
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