CLIC5 siRNA – Chloride Intracellular Channel Protein 5 Isoform a (Human)

PRODUCT OVERVIEW

Product Name	CLIC5, siRNA
Full Product Name	CLIC5 siRNA (Human)
Product Gene Name	CLIC5 sirna
Product Synonym Names	Chloride intracellular channel protein 5
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CLIC5 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	22,830 Da
OMIM	607293
3D Structure	ModBase 3D Structure for Q9NZA1
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 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	MBS8211867 is an siRNA targeting CLIC5. Also known as CLIC5 siRNA (Human). Reactive in Human. 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 #	166197662
NCBI GeneID	53405
NCBI Accession #	NP_001107558.1
UniProt Primary Accession #	Q9NZA1
UniProt Secondary Accession #	Q5T4Z0; Q8NBY3; Q96JT5; Q9BWZ0; B3KUF1
UniProt Related Accession #	Q9NZA1
GenBank Nucleotide #	NM_001114086.1
NCBI Official Full Name	chloride intracellular channel protein 5 isoform a
NCBI Official Synonym Full Names	chloride intracellular channel 5
NCBI Official Symbol	CLIC5
NCBI Official Synonym Symbols	MST130; DFNB102; DFNB103; MSTP130
UniProt Protein Name	Chloride intracellular channel protein 5
Protein Family	Chloride intracellular channel protein
UniProt Gene Name	CLIC5
UniProt Entry Name	CLIC5_HUMAN
NCBI Protein Information	chloride intracellular channel protein 5
NCBI Summary for CLIC5	This gene encodes a member of the chloride intracellular channel (CLIC) family of chloride ion channels. The encoded protein associates with actin-based cytoskeletal structures and may play a role in multiple processes including hair cell stereocilia formation, myoblast proliferation and glomerular podocyte and endothelial cell maintenance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
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 Chromosomal Location of Human Ortholog: 6p12.3 Cellular Component: Golgi apparatus; stereocilium; microtubule organizing center; cell cortex; actin cytoskeleton Molecular Function: chloride channel activity; protein binding; voltage-gated ion channel activity Biological Process: diet induced thermogenesis; protein localization; sensory perception of sound; transport; chloride transport; auditory receptor cell stereocilium organization and biogenesis; female pregnancy; neuromuscular process controlling balance Disease: Deafness, Autosomal Recessive 103
Research Articles on CLIC5	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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