CAPZA3 siRNA – F-Actin-Capping Protein Subunit Alpha-3 (Human)

PRODUCT OVERVIEW

Product Name	CAPZA3, siRNA
Full Product Name	CAPZA3 siRNA (Human)
Product Gene Name	CAPZA3 sirna
Product Synonym Names	CAPAA3; GSG3; F-actin-capping protein subunit alpha-3; CapZ alpha-3; CP-alpha-3; Germ cell-specific protein 3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CAPZA3 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	35,025 Da
OMIM	608722
3D Structure	ModBase 3D Structure for Q96KX2
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 CAPZA3 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 CAPZA3 sirna	RNA Interference (RNAi)
Related Product Information for CAPZA3 sirna	MBS8202614 is an siRNA targeting CAPZA3. Also known as CAPZA3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit CAPZA3 expression using RNA interference
Other Notes	Small volumes of CAPZA3 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 CAPZA3. It may not necessarily be applicable to this product.

NCBI GI #	15277417
NCBI GeneID	93661
NCBI Accession #	NP_201585.1
UniProt Primary Accession #	Q96KX2
UniProt Secondary Accession #	Q969J0
UniProt Related Accession #	Q96KX2
GenBank Nucleotide #	NM_033328.2
NCBI Official Full Name	F-actin-capping protein subunit alpha-3
NCBI Official Synonym Full Names	capping protein (actin filament) muscle Z-line, alpha 3
NCBI Official Symbol	CAPZA3
NCBI Official Synonym Symbols	Gsg3; CAPPA3
UniProt Protein Name	F-actin-capping protein subunit alpha-3
UniProt Synonym Protein Names	CapZ alpha-3; CP-alpha-3; Germ cell-specific protein 3
Protein Family	F-actin-capping protein
UniProt Gene Name	CAPZA3
UniProt Synonym Gene Names	CAPAA3; GSG3; CP-alpha-3
UniProt Entry Name	CAZA3_HUMAN
NCBI Protein Information	F-actin-capping protein subunit alpha-3
NCBI Summary for CAPZA3	This gene encodes an actin capping protein, one of the F-actin capping protein alpha subunit family. The encoded protein is predominantly localized to the neck region of ejaculated sperm, other immunohistochemical signals were found in the tail and postacrosomal regions. The encoded protein may also form heterodimers of alpha and beta subunits. This protein may be important in determining sperm architecture and male fertility. [provided by RefSeq, Jul 2008]
UniProt Comments for CAPZA3	CAPZA3: F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. May play a role in the morphogenesis of spermatid. Belongs to the F-actin-capping protein alpha subunit family. Protein type: Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 12p12.3 Cellular Component: cortical cytoskeleton; F-actin capping protein complex; membrane; acrosome; nucleus Molecular Function: actin binding Biological Process: barbed-end actin filament capping; spermatid development
Research Articles on CAPZA3	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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