MICALCL siRNA – MICAL C-Terminal-Like Protein (Rat)

PRODUCT OVERVIEW

Product Name	MICALCL, siRNA
Full Product Name	MICALCL siRNA (Rat)
Product Gene Name	MICALCL sirna
Product Synonym Names	MICAL C-terminal-like protein; ERK2-binding testicular protein 1; Ebitein-1; Protein RSB-11-77
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MICALCL siRNA (Rat) 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	59,136 Da
3D Structure	ModBase 3D Structure for Q4G091
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 rat MICALCL 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 MICALCL sirna	RNA Interference (RNAi)
Related Product Information for MICALCL sirna	MBS8223467 is an siRNA targeting MICALCL. Also known as MICALCL siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit MICALCL expression using RNA interference
Other Notes	Small volumes of MICALCL 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 MICALCL. It may not necessarily be applicable to this product.

NCBI GI #	78097081

NCBI GeneID	293180
NCBI Accession #	NP_872610.2
UniProt Primary Accession #	Q4G091
UniProt Secondary Accession #	Q498N8; Q80WN5
UniProt Related Accession #	Q4G091
GenBank Nucleotide #	NM_182669.2
NCBI Official Full Name	MICAL C-terminal-like protein
NCBI Official Synonym Full Names	MICAL C-terminal like
NCBI Official Symbol	Micalcl
NCBI Official Synonym Symbols	RSB-11-77
UniProt Protein Name	MICAL C-terminal-like protein
UniProt Synonym Protein Names	ERK2-binding testicular protein 1; Ebitein-1; Protein RSB-11-77
Protein Family	MICAL C-terminal-like protein
UniProt Gene Name	Micalcl
UniProt Entry Name	MICLK_RAT
NCBI Protein Information	MICAL C-terminal-like protein
UniProt Comments for MICALCL	MICALCL: May cooperate with MAPK1/ERK2 via an intracellular signal transduction pathway in the morphogenetic development of round spermatids to spermatozoa. Belongs to the ebitein family. Cellular Component: cytoplasm Molecular Function: mitogen-activated protein kinase binding Biological Process: multicellular organismal development; spermatogenesis; cell differentiation
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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