CPNE7 siRNA – Copine-7 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	CPNE7, siRNA
Full Product Name	CPNE7 siRNA (Human)
Product Gene Name	CPNE7 sirna
Product Synonym Names	Copine-7; Copine VII
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CPNE7 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	61,933 Da
OMIM	605689
3D Structure	ModBase 3D Structure for Q9UBL6
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 CPNE7 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 CPNE7 sirna	RNA Interference (RNAi)
Related Product Information for CPNE7 sirna	MBS8239147 is an siRNA targeting CPNE7. Also known as CPNE7 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit CPNE7 expression using RNA interference
Other Notes	Small volumes of CPNE7 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 CPNE7. It may not necessarily be applicable to this product.

NCBI GI #	7656993
NCBI GeneID	27132
NCBI Accession #	NP_055242.1
UniProt Primary Accession #	Q9UBL6
UniProt Related Accession #	Q9UBL6
GenBank Nucleotide #	NM_014427.4
NCBI Official Full Name	copine-7 isoform b
NCBI Official Synonym Full Names	copine VII
NCBI Official Symbol	CPNE7
UniProt Protein Name	Copine-7
UniProt Synonym Protein Names	Copine VII
Protein Family	Copine
UniProt Gene Name	CPNE7
UniProt Entry Name	CPNE7_HUMAN
NCBI Protein Information	copine-7
NCBI Summary for CPNE7	This gene encodes a member of the copine family, which is composed of calcium-dependent membrane-binding proteins. The gene product contains two N-terminal C2 domains and one von Willebrand factor A domain. The encoded protein may be involved in membrane trafficking. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]
UniProt Comments for CPNE7	CPNE7: May function in membrane trafficking. Exhibits calcium- dependent phospholipid binding properties. Belongs to the copine family. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 16q24.3 Molecular Function: transporter activity Biological Process: transport; lipid metabolic process
Research Articles on CPNE7	**1.** These results suggest Cpne7 is a diffusible signaling molecule that is secreted by preameloblasts, and regulates the differentiation of mesenchymal cells of dental or non-dental origin into odontoblasts.
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