CNPY4 siRNA – Protein Canopy Homolog 4 (Human)

PRODUCT OVERVIEW

Product Name	CNPY4, siRNA
Full Product Name	CNPY4 siRNA (Human)
Product Gene Name	CNPY4 sirna
Product Synonym Names	Protein canopy homolog 4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CNPY4 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	28,310 Da
OMIM	610047
3D Structure	ModBase 3D Structure for Q8N129
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 CNPY4 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 CNPY4 sirna	RNA Interference (RNAi)
Related Product Information for CNPY4 sirna	MBS8217769 is an siRNA targeting CNPY4. Also known as CNPY4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit CNPY4 expression using RNA interference
Other Notes	Small volumes of CNPY4 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 CNPY4. It may not necessarily be applicable to this product.

NCBI GI #	22749479
NCBI GeneID	245812
NCBI Accession #	NP_689968.1
UniProt Primary Accession #	Q8N129
UniProt Secondary Accession #	Q8WUN9
UniProt Related Accession #	Q8N129
GenBank Nucleotide #	NM_152755.1
NCBI Official Full Name	protein canopy homolog 4
NCBI Official Synonym Full Names	canopy FGF signaling regulator 4
NCBI Official Symbol	CNPY4
NCBI Official Synonym Symbols	PRAT4B
UniProt Protein Name	Protein canopy homolog 4
Protein Family	Protein canopy
UniProt Gene Name	CNPY4
UniProt Entry Name	CNPY4_HUMAN
NCBI Protein Information	protein canopy homolog 4
UniProt Comments for CNPY4	CNPY4: Plays a role in the regulation of the cell surface expression of TLR4. Belongs to the canopy family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7q22.1 Cellular Component: extracellular region Molecular Function: receptor binding
Research Articles on CNPY4	**1.** a mechanism for the differential trafficking of TLR1 I602S variants, and highlight the distinct roles for PRAT4A and PRAT4B in the regulation of TLR1 surface expression.
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