SEPT5 siRNA – Septin-5 (Mouse)

PRODUCT OVERVIEW

Product Name	SEPT5, siRNA
Full Product Name	SEPT5 siRNA (Mouse)
Product Gene Name	SEPT5 sirna
Product Synonym Names	PNUTL1; Septin-5; Cell division control-related protein 1; CDCrel-1; Peanut-like protein 1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SEPT5 siRNA (Mouse) 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	42,748 Da
3D Structure	ModBase 3D Structure for Q9Z2Q6
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 mouse SEPT5 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 SEPT5 sirna	RNA Interference (RNAi)
Related Product Information for SEPT5 sirna	MBS8240802 is an siRNA targeting SEPT5. Also known as SEPT5 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SEPT5 expression using RNA interference
Other Notes	Small volumes of SEPT5 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 SEPT5. It may not necessarily be applicable to this product.

NCBI GI #	158508501

NCBI GeneID	18951
NCBI Accession #	NP_998779.2
UniProt Primary Accession #	Q9Z2Q6
UniProt Secondary Accession #	Q3UYG4; Q6PB74; B2RUC5
UniProt Related Accession #	Q9Z2Q6
GenBank Nucleotide #	NM_213614.2
NCBI Official Full Name	septin-5
NCBI Official Synonym Full Names	septin 5
NCBI Official Symbol	Sept5
NCBI Official Synonym Symbols	Pnutl1; Cdcrel1; Cdcrel-1
UniProt Protein Name	Septin-5
UniProt Synonym Protein Names	Cell division control-related protein 1; CDCrel-1; Peanut-like protein 1
UniProt Gene Name	Sept5
UniProt Synonym Gene Names	Pnutl1; CDCrel-1
UniProt Entry Name	SEPT5_MOUSE
NCBI Protein Information	septin-5
UniProt Comments for SEPT5	SEPT5: Filament-forming cytoskeletal GTPase. May play a role in cytokinesis (Potential). May play a role in platelet secretion. Belongs to the septin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Hydrolase; Cell cycle regulation; Vesicle; Cytoskeletal Cellular Component: synaptic vesicle; cytoskeleton; cytoplasm; stress fiber; plasma membrane; terminal button; synapse; cell cortex; nerve terminal; cleavage furrow Molecular Function: protein binding; GDP binding; protein homodimerization activity; GTP binding; syntaxin binding; nucleotide binding; phosphoinositide binding Biological Process: regulation of exocytosis; cell division; cell cycle; positive regulation of exocytosis
Research Articles on SEPT5	**1.** Congenic knockout mice and mice overexpressing Sept5 in the hippocampus or amygdala were indistinguishable from control mice in novelty and olfactory responses, anxiety or motor activity
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