INPP5F siRNA – Phosphatidylinositide Phosphatase SAC2 (Mouse)

PRODUCT OVERVIEW

Product Name	INPP5F, siRNA
Full Product Name	INPP5F siRNA (Mouse)
Product Gene Name	INPP5F sirna
Product Synonym Names	KIAA0966; SAC2; Phosphatidylinositide phosphatase SAC2; Inositol polyphosphate 5-phosphatase F; Sac domain-containing inositol phosphatase 2; Sac domain-containing phosphoinositide 5-phosphatase 2
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	INPP5F 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	48,995 Da
3D Structure	ModBase 3D Structure for Q8CDA1
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 INPP5F 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 INPP5F sirna	RNA Interference (RNAi)
Related Product Information for INPP5F sirna	MBS8219224 is an siRNA targeting INPP5F. Also known as INPP5F siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit INPP5F expression using RNA interference
Other Notes	Small volumes of INPP5F 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 INPP5F. It may not necessarily be applicable to this product.

NCBI GI #	31542017
NCBI GeneID	101490
NCBI Accession #	NP_848756.2
UniProt Primary Accession #	Q8CDA1
UniProt Secondary Accession #	Q3UCS0; Q6NX83; Q6ZQ16; Q8C8G7; Q8CBW2
UniProt Related Accession #	Q8CDA1
GenBank Nucleotide #	NM_178641.5
NCBI Official Full Name	phosphatidylinositide phosphatase SAC2
NCBI Official Synonym Full Names	inositol polyphosphate-5-phosphatase F
NCBI Official Symbol	Inpp5f
NCBI Official Synonym Symbols	SAC2; cI-27; AI115354; AW561896; mKIAA0966; 5830435P03Rik
UniProt Protein Name	Phosphatidylinositide phosphatase SAC2
UniProt Synonym Protein Names	Inositol polyphosphate 5-phosphatase F; Sac domain-containing inositol phosphatase 2; Sac domain-containing phosphoinositide 5-phosphatase 2
Protein Family	Phosphatidylinositide phosphatase
UniProt Gene Name	Inpp5f
UniProt Synonym Gene Names	Kiaa0966; Sac2
UniProt Entry Name	SAC2_MOUSE
NCBI Protein Information	phosphatidylinositide phosphatase SAC2
UniProt Comments for INPP5F	INPP5F: Inositol 5-phosphatase which acts on phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Hydrolyzes phosphatidylinositol 4,5- bisphosphate most effectively. Modulates AKT/GSK3B pathway by decreasing AKT and GSK3B phosphorylation. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Phosphatase, lipid; EC 3.1.3.- Cellular Component: intracellular Molecular Function: protein tyrosine/threonine phosphatase activity; inositol-1,3,4-trisphosphate 4-phosphatase activity; phosphatidylinositol-3,5-bisphosphate 5-phosphatase activity; hydrolase activity; inositol-1,4,5,6-tetrakisphosphate 6-phosphatase activity; inositol bisphosphate phosphatase activity; inositol-1,3,4,5,6-pentakisphosphate 3-phosphatase activity; phosphoric ester hydrolase activity; transmembrane receptor protein phosphatase activity; JUN kinase phosphatase activity; 5-amino-6-(5-phosphoribitylamino)uracil phosphatase activity; NADP phosphatase activity; phosphatidylinositol-4-phosphate phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; inositol-4,5-bisphosphate 5-phosphatase activity; phosphohistidine phosphatase activity; MAP kinase tyrosine/serine/threonine phosphatase activity Biological Process: phosphatidylinositol catabolic process; cardiac muscle hypertrophy; phosphoinositide-mediated signaling; regulation of protein kinase B signaling cascade
Research Articles on INPP5F	**1.** Sac2/INPP5F is a PI4P phosphatase that colocalizes with OCRL on endocytic membranes.
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