SNCAIP siRNA – Synphilin-1 Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	SNCAIP, siRNA
Full Product Name	SNCAIP siRNA (Mouse)
Product Gene Name	SNCAIP sirna
Product Synonym Names	Synphilin-1; Alpha-synuclein-interacting protein
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SNCAIP 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	105,607 Da
3D Structure	ModBase 3D Structure for Q99ME3
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 SNCAIP 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 SNCAIP sirna	RNA Interference (RNAi)
Related Product Information for SNCAIP sirna	MBS8229232 is an siRNA targeting SNCAIP. Also known as SNCAIP siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SNCAIP expression using RNA interference
Other Notes	Small volumes of SNCAIP 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 SNCAIP. It may not necessarily be applicable to this product.

NCBI GI #	312434002

NCBI GeneID	67847
NCBI Accession #	NP_001186080.1
UniProt Primary Accession #	Q99ME3
UniProt Secondary Accession #	A2BDD1
UniProt Related Accession #	Q99ME3
GenBank Nucleotide #	NM_001199151.1
NCBI Official Full Name	synphilin-1 isoform 1
NCBI Official Synonym Full Names	synuclein, alpha interacting protein (synphilin)
NCBI Official Symbol	Sncaip
NCBI Official Synonym Symbols	SYPH1; BB104594; 2810407O15Rik; 4933427B05Rik
UniProt Protein Name	Synphilin-1
UniProt Synonym Protein Names	Alpha-synuclein-interacting protein
Protein Family	Synphilin
UniProt Gene Name	Sncaip
UniProt Entry Name	SNCAP_MOUSE
NCBI Protein Information	synphilin-1
UniProt Comments for SNCAIP	SNCAIP: Isoform 2 inhibits the ubiquitin ligase activity of SIAH1 and inhibits proteasomal degradation of target proteins. Isoform 2 inhibits autoubiquitination and proteasomal degradation of SIAH1, and thereby increases cellular levels of SIAH. Isoform 2 modulates SNCA monoubiquitination by SIAH1. Defects in SNCAIP may be a cause of Parkinson disease (PARK). A complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability. Additional features are characteristic postural abnormalities, dysautonomia, dystonic cramps, and dementia. The pathology of Parkinson disease involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain. The disease is progressive and usually manifests after the age of 50 years, although early-onset cases (before 50 years) are known. The majority of the cases are sporadic suggesting a multifactorial etiology based on environmental and genetic factors. However, some patients present with a positive family history for the disease. Familial forms of the disease usually begin at earlier ages and are associated with atypical clinical features. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle Cellular Component: cytoplasm Molecular Function: identical protein binding; ubiquitin protein ligase binding Biological Process: regulation of neurotransmitter secretion; dopamine metabolic process
Research Articles on SNCAIP	**1.** Studies identify a novel function of synphilin-1 in controlling food intake and body weight, and may provide a unique obesity model for future studies of obesity pathogenesis and therapeutics.
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