SIRPB1 siRNA – Signal-Regulatory Protein Beta-1 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	SIRPB1, siRNA
Full Product Name	SIRPB1 siRNA (Human)
Product Gene Name	SIRPB1 sirna
Product Synonym Names	Signal-regulatory protein beta-1; SIRP-beta-1; CD172 antigen-like family member B; CD antigen CD172b
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SIRPB1 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	43,359 Da
OMIM	603889
3D Structure	ModBase 3D Structure for O00241
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 SIRPB1 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 SIRPB1 sirna	RNA Interference (RNAi)
Related Product Information for SIRPB1 sirna	MBS8224388 is an siRNA targeting SIRPB1. Also known as SIRPB1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SIRPB1 expression using RNA interference
Other Notes	Small volumes of SIRPB1 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 SIRPB1. It may not necessarily be applicable to this product.

NCBI GI #	144953878
NCBI GeneID	10326
NCBI Accession #	NP_001077379.1
UniProt Primary Accession #	O00241
UniProt Secondary Accession #	Q5TFQ9; Q5TFR0; Q8TB12; Q9H1U5; Q9Y4V0; A6NLM2; B2R8V0
UniProt Related Accession #	O00241; Q5TFQ8
GenBank Nucleotide #	NM_001083910.2
NCBI Official Full Name	signal-regulatory protein beta-1 isoform 2
NCBI Official Synonym Full Names	signal-regulatory protein beta 1
NCBI Official Symbol	SIRPB1
NCBI Official Synonym Symbols	CD172b; SIRP-BETA-1
UniProt Protein Name	Signal-regulatory protein beta-1
UniProt Synonym Protein Names	CD172 antigen-like family member B; CD_antigen: CD172b
Protein Family	Signal-regulatory protein
UniProt Gene Name	SIRPB1
UniProt Synonym Gene Names	SIRP-beta-1
UniProt Entry Name	SIRB1_HUMAN
NCBI Protein Information	signal-regulatory protein beta-1
NCBI Summary for SIRPB1	The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein was found to interact with TYROBP/DAP12, a protein bearing immunoreceptor tyrosine-based activation motifs. This protein was also reported to participate in the recruitment of tyrosine kinase SYK. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]
UniProt Comments for SIRPB1	SIRPB1: Immunoglobulin-like cell surface receptor involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. Participates also in the recruitment of tyrosine kinase SYK. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 20p13 Cellular Component: integral to plasma membrane; plasma membrane; integral to membrane Molecular Function: protein binding Biological Process: cell surface receptor linked signal transduction; innate immune response; signal transduction
Research Articles on SIRPB1	**1.** SIRPB1 copy-number polymorphism was significantly associated with impulsive-disinhibited personality scores in a dose-dependent manner.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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