S1PR3 siRNA – Sphingosine 1-Phosphate Receptor 3 (Mouse)

PRODUCT OVERVIEW

Product Name	S1PR3, siRNA
Full Product Name	S1PR3 siRNA (Mouse)
Product Gene Name	S1PR3 sirna
Product Synonym Names	EDG3; LPB3; Sphingosine 1-phosphate receptor 3; S1P receptor 3; S1P3; Endothelial differentiation G-protein coupled receptor 3; Lysophospholipid receptor B3; Sphingosine 1-phosphate receptor Edg-3; S1P receptor Edg-3
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	S1PR3 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	42,270 Da
3D Structure	ModBase 3D Structure for Q9Z0U9
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 S1PR3 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 S1PR3 sirna	RNA Interference (RNAi)
Related Product Information for S1PR3 sirna	MBS8201947 is an siRNA targeting S1PR3. Also known as S1PR3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit S1PR3 expression using RNA interference
Other Notes	Small volumes of S1PR3 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 S1PR3. It may not necessarily be applicable to this product.

NCBI GI #	6753716

NCBI GeneID	13610
NCBI Accession #	NP_034231.1
UniProt Primary Accession #	Q9Z0U9
UniProt Secondary Accession #	Q8BP20
UniProt Related Accession #	Q9Z0U9
GenBank Nucleotide #	NM_010101.4
NCBI Official Full Name	sphingosine 1-phosphate receptor 3
NCBI Official Synonym Full Names	sphingosine-1-phosphate receptor 3
NCBI Official Symbol	S1pr3
NCBI Official Synonym Symbols	Edg3; Lpb3; S1p3; AI132464
UniProt Protein Name	Sphingosine 1-phosphate receptor 3
UniProt Synonym Protein Names	Endothelial differentiation G-protein coupled receptor 3; Lysophospholipid receptor B3; Sphingosine 1-phosphate receptor Edg-3; S1P receptor Edg-3
Protein Family	Sphingosine 1-phosphate receptor
UniProt Gene Name	S1pr3
UniProt Synonym Gene Names	Edg3; Lpb3; S1P receptor 3; S1P3; S1P receptor Edg-3
UniProt Entry Name	S1PR3_MOUSE
NCBI Protein Information	sphingosine 1-phosphate receptor 3
NCBI Summary for S1PR3	This gene encodes a member of the G-protein coupled receptor 1 family. The encoded protein is a receptor for the lysophospholipid sphingosine 1-phosphate. The gene product functions in endothelial cells and is involved in vascular and heart development. The gene product mediates HDL and HDL-associated lysophospholipid-induced vasorelaxation, and it coordinates with other lysophospholipid receptors in the process of angiogenesis. [provided by RefSeq, Jan 2010]
UniProt Comments for S1PR3	S1PR3: Receptor for the lysosphingolipid sphingosine 1- phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. When expressed in rat HTC4 hepatoma cells, is capable of mediating S1P-induced cell proliferation and suppression of apoptosis. Belongs to the G-protein coupled receptor 1 family. Protein type: Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 1 Cellular Component: membrane; integral to plasma membrane; plasma membrane; integral to membrane Molecular Function: integrin binding; G-protein coupled receptor activity; signal transducer activity Biological Process: G-protein coupled receptor protein signaling pathway; regulation of interleukin-1 beta production; cytokine production; G-protein signaling, adenylate cyclase inhibiting pathway; inflammatory response; signal transduction
Research Articles on S1PR3	**1.** results indicate that S1P3 receptor signaling plays an important role in pulmonary inflammation and fibrosis and that this signaling occurs via CTGF expression
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