SLC35B3 siRNA – Adenosine 3'-Phospho 5'-Phosphosulfate Transporter 2 (Human)

PRODUCT OVERVIEW

Product Name	SLC35B3, siRNA
Full Product Name	SLC35B3 siRNA (Human)
Product Gene Name	SLC35B3 sirna
Product Synonym Names	C6orf196; PAPST2; Adenosine 3'-phospho 5'-phosphosulfate transporter 2; 3'-phosphoadenosine 5'-phosphosulfate transporter; PAPS transporter 2; Solute carrier family 35 member B3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC35B3 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	31,531 Da
OMIM	610845
3D Structure	ModBase 3D Structure for Q9H1N7
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 SLC35B3 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 SLC35B3 sirna	RNA Interference (RNAi)
Related Product Information for SLC35B3 sirna	MBS8226903 is an siRNA targeting SLC35B3. Also known as SLC35B3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SLC35B3 expression using RNA interference
Other Notes	Small volumes of SLC35B3 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 SLC35B3. It may not necessarily be applicable to this product.

NCBI GI #	216547942
NCBI GeneID	51000
NCBI Accession #	NP_001136013.1
UniProt Primary Accession #	Q9H1N7
UniProt Secondary Accession #	Q1XH11; Q6MZJ0; Q7Z662; Q9Y308; A6NKX9
UniProt Related Accession #	Q9H1N7
GenBank Nucleotide #	NM_001142541.2
NCBI Official Full Name	adenosine 3'-phospho 5'-phosphosulfate transporter 2
NCBI Official Synonym Full Names	solute carrier family 35 (adenosine 3'-phospho 5'-phosphosulfate transporter), member B3
NCBI Official Symbol	SLC35B3
NCBI Official Synonym Symbols	CGI-19; PAPST2; C6orf196
UniProt Protein Name	Adenosine 3'-phospho 5'-phosphosulfate transporter 2
UniProt Synonym Protein Names	3'-phosphoadenosine 5'-phosphosulfate transporter; PAPS transporter 2; Solute carrier family 35 member B3
Protein Family	Adenosine 3'-phospho 5'-phosphosulfate transporter
UniProt Gene Name	SLC35B3
UniProt Synonym Gene Names	C6orf196; PAPST2
UniProt Entry Name	S35B3_HUMAN
NCBI Protein Information	adenosine 3'-phospho 5'-phosphosulfate transporter 2
NCBI Summary for SLC35B3	This gene is a member of the solute carrier family. The encoded protein is involved in the transport of 3-prime phosphoadenosine 5-prime phosphosulfate (PAPS) from the nucleus or the cytosol to the Golgi lumen. This gene has been reported to be expressed preferentially in the human colon tissues. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]
UniProt Comments for SLC35B3	SLC35B3: Mediates the transport of adenosine 3'-phospho 5'- phosphosulfate (PAPS), from cytosol into Golgi. PAPS is a universal sulfuryl donor for sulfation events that take place in the Golgi. Compensates for the insufficient expression of SLC35B2/PAPST1 during the synthesis of sulfated glycoconjugates in the colon. Belongs to the nucleotide-sugar transporter family. SLC35B subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transporter; Transporter, SLC family; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 6p24.3 Cellular Component: Golgi membrane; Golgi apparatus; intracellular membrane-bound organelle; mitochondrion; integral to membrane Biological Process: glycosaminoglycan metabolic process; xenobiotic metabolic process; carbohydrate metabolic process; pathogenesis; transmembrane transport; 3'-phosphoadenosine 5'-phosphosulfate metabolic process; 3'-phosphoadenosine 5'-phosphosulfate biosynthetic process
Research Articles on SLC35B3	**1.** The specifically up-regulated non-coding gene HULC in HepG2 cell line has some effects on the expression of its neighboring gene SLC35B3.
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