SLC16A4 siRNA – Monocarboxylate Transporter 5 Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	SLC16A4, siRNA
Full Product Name	SLC16A4 siRNA (Mouse)
Product Gene Name	SLC16A4 sirna
Product Synonym Names	MCT5; Monocarboxylate transporter 5; MCT 5
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC16A4 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	40,028 Da
3D Structure	ModBase 3D Structure for Q8R0M8
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 SLC16A4 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 SLC16A4 sirna	RNA Interference (RNAi)
Related Product Information for SLC16A4 sirna	MBS828754 is an siRNA targeting SLC16A4. Also known as SLC16A4 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SLC16A4 expression using RNA interference
Other Notes	Small volumes of SLC16A4 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 SLC16A4. It may not necessarily be applicable to this product.

NCBI GI #	22122665

NCBI GeneID	229699
NCBI Accession #	NP_666248.1
UniProt Primary Accession #	Q8R0M8
UniProt Secondary Accession #	Q8BLA5; Q8BWE3; Q8R157
UniProt Related Accession #	Q8R0M8
GenBank Nucleotide #	NM_146136.1
NCBI Official Full Name	monocarboxylate transporter 5 isoform 1
NCBI Official Synonym Full Names	solute carrier family 16 (monocarboxylic acid transporters), member 4
NCBI Official Symbol	Slc16a4
NCBI Official Synonym Symbols	MCT 5; AW146050
UniProt Protein Name	Monocarboxylate transporter 5
Protein Family	Monocarboxylate transporter
UniProt Gene Name	Slc16a4
UniProt Synonym Gene Names	Mct5; MCT 5
UniProt Entry Name	MOT5_MOUSE
NCBI Protein Information	monocarboxylate transporter 5
UniProt Comments for SLC16A4	SLC16A4: Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate. Belongs to the major facilitator superfamily. Monocarboxylate porter (TC 2.A.1.13) family. Protein type: Membrane protein, multi-pass; Membrane protein, integral Cellular Component: membrane; integral to membrane; plasma membrane Molecular Function: monocarboxylic acid transmembrane transporter activity; symporter activity Biological Process: monocarboxylic acid transport; transport; transmembrane transport
Research Articles on SLC16A4	**1.** This study showed that mouse MCT1, MCT2, and MCT4 are expressed in the PNS. While DRG neurons express MCT1, myelinating Schwann cells.
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