SLC16A4 siRNA – Monocarboxylate Transporter 5 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	SLC16A4, siRNA
Full Product Name	SLC16A4 siRNA (Human)
Product Gene Name	SLC16A4 sirna
Product Synonym Names	MCT4; MCT5; Monocarboxylate transporter 5; MCT 5; Monocarboxylate transporter 4; MCT 4; Solute carrier family 16 member 4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC16A4 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	49,100 Da
OMIM	603878
3D Structure	ModBase 3D Structure for O15374
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 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	MBS8222885 is an siRNA targeting SLC16A4. Also known as SLC16A4 siRNA (Human). Reactive in Human. 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 #	319996630
NCBI GeneID	9122
NCBI Accession #	NP_001188475.1
UniProt Primary Accession #	O15374
UniProt Secondary Accession #	Q5T612; Q8WU09; A8K3V5; B2R9C9; B4DJ67; B4DPX7; E7EPY8; G3V175
UniProt Related Accession #	O15374
GenBank Nucleotide #	NM_001201546.1
NCBI Official Full Name	monocarboxylate transporter 5 isoform 2
NCBI Official Synonym Full Names	solute carrier family 16, member 4
NCBI Official Symbol	SLC16A4
NCBI Official Synonym Symbols	MCT4; MCT5
UniProt Protein Name	Monocarboxylate transporter 5
UniProt Synonym Protein Names	Monocarboxylate transporter 4; MCT 4; Solute carrier family 16 member 4
Protein Family	Monocarboxylate transporter
UniProt Gene Name	SLC16A4
UniProt Synonym Gene Names	MCT4; MCT5; MCT 5; MCT 4
UniProt Entry Name	MOT5_HUMAN
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, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: membrane; integral to plasma membrane; integral to membrane Molecular Function: monocarboxylic acid transmembrane transporter activity; symporter activity Biological Process: monocarboxylic acid transport
Research Articles on SLC16A4	**1.** MCT4 expression can predict survival and trans-arterial chemoembolization treatment response for hepatocellular carcinoma patients. MCT4 plays a role in cell proliferation and migration/invasion.
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