SLC39A3 siRNA – Zinc Transporter ZIP3 (Rat)

PRODUCT OVERVIEW

Product Name	SLC39A3, siRNA
Full Product Name	SLC39A3 siRNA (Rat)
Product Gene Name	SLC39A3 sirna
Product Synonym Names	ZIP3; Zinc transporter ZIP3; Solute carrier family 39 member 3; Zrt- and Irt-like protein 3; ZIP-3
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC39A3 siRNA (Rat) 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	33,964 Da
3D Structure	ModBase 3D Structure for Q5U1X7
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 rat SLC39A3 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 SLC39A3 sirna	RNA Interference (RNAi)
Related Product Information for SLC39A3 sirna	MBS8223137 is an siRNA targeting SLC39A3. Also known as SLC39A3 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit SLC39A3 expression using RNA interference
Other Notes	Small volumes of SLC39A3 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 SLC39A3. It may not necessarily be applicable to this product.

NCBI GI #	56605788

NCBI GeneID	314637
NCBI Accession #	NP_001008357.1
UniProt Primary Accession #	Q5U1X7
UniProt Related Accession #	Q5U1X7
GenBank Nucleotide #	NM_001008356.1
NCBI Official Full Name	zinc transporter ZIP3
NCBI Official Synonym Full Names	solute carrier family 39 (zinc transporter), member 3
NCBI Official Symbol	Slc39a3
UniProt Protein Name	Zinc transporter ZIP3
UniProt Synonym Protein Names	Solute carrier family 39 member 3; Zrt- and Irt-like protein 3; ZIP-3
Protein Family	Zinc transporter
UniProt Gene Name	Slc39a3
UniProt Synonym Gene Names	Zip3; ZIP-3
UniProt Entry Name	S39A3_RAT
NCBI Protein Information	zinc transporter ZIP3
UniProt Comments for SLC39A3	SLC39A3: Acts as a zinc-influx transporter (Potential). Belongs to the ZIP transporter (TC 2.A.5) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transporter; Transporter, SLC family; Membrane protein, multi-pass Cellular Component: integral to membrane Molecular Function: zinc ion transmembrane transporter activity Biological Process: limb development; in utero embryonic development; cell morphogenesis; T cell homeostasis; embryonic cranial skeleton morphogenesis; zinc ion transport
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