SLC39A13 siRNA – Zinc Transporter ZIP13 Isoform a (Mouse)

PRODUCT OVERVIEW

Product Name	SLC39A13, siRNA
Full Product Name	SLC39A13 siRNA (Mouse)
Product Gene Name	SLC39A13 sirna
Product Synonym Names	ZIP13; Zinc transporter ZIP13; Solute carrier family 39 member 13; Zrt- and Irt-like protein 13; ZIP-13
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC39A13 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	17,376 Da
3D Structure	ModBase 3D Structure for Q8BZH0
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 SLC39A13 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 SLC39A13 sirna	RNA Interference (RNAi)
Related Product Information for SLC39A13 sirna	MBS8240356 is an siRNA targeting SLC39A13. Also known as SLC39A13 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SLC39A13 expression using RNA interference
Other Notes	Small volumes of SLC39A13 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 SLC39A13. It may not necessarily be applicable to this product.

NCBI GI #	595577337

NCBI GeneID	68427
NCBI Accession #	NP_001277694.1
UniProt Primary Accession #	Q8BZH0
UniProt Secondary Accession #	Q497M5; Q8VDX1; Q9D1R4; B7ZCF2
UniProt Related Accession #	Q8BZH0
GenBank Nucleotide #	NM_001290765.1
NCBI Official Full Name	zinc transporter ZIP13 isoform a
NCBI Official Synonym Full Names	solute carrier family 39 (metal ion transporter), member 13
NCBI Official Symbol	Slc39a13
NCBI Official Synonym Symbols	ZIP13; ZIP-13; AA387663; 1100001L14Rik
UniProt Protein Name	Zinc transporter ZIP13
UniProt Synonym Protein Names	Solute carrier family 39 member 13; Zrt- and Irt-like protein 13; ZIP-13
Protein Family	Zinc transporter
UniProt Gene Name	Slc39a13
UniProt Synonym Gene Names	Zip13; ZIP-13
UniProt Entry Name	S39AD_MOUSE
NCBI Protein Information	zinc transporter ZIP13
UniProt Comments for SLC39A13	SLC39A13: Acts as a zinc-influx transporter. Defects in SLC39A13 are the cause of Ehlers-Danlos syndrome-like spondylocheirodysplasia (SCD-EDS). SCD- EDS is a 'spondylocheiro dysplastic form of Ehlers-Danlos syndrome'. The syndrome consists of a generalized skeletal dysplasia involving mainly the spine (spondylo) and striking clinical abnormalities of the hands (cheiro) in addition to the EDS-like features. Clinical features included postnatal growth retardation, moderate short stature, protuberant eyes with bluish sclerae, hands with finely wrinkled palms, atrophy of the thenar muscles, and tapering fingers. Patients have thin, hyperelastic skin and hypermobile small joints consistent with an Ehlers- Danlos-like phenotype. Radiologic features included mild to moderate platyspondyly, mild to moderate osteopenia of the spine, small ileum, flat proximal femoral epiphyses, short, wide femoral necks, and broad metaphyses (elbows, knees, wrists, and interphalangeal joints). 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, multi-pass; Membrane protein, integral Cellular Component: Golgi apparatus; membrane; perinuclear region of cytoplasm; cell; integral to membrane Molecular Function: metal ion transmembrane transporter activity; protein homodimerization activity; zinc ion transmembrane transporter activity Biological Process: metal ion transport; transport; cellular zinc ion homeostasis; ion transport; zinc ion transport; transmembrane transport
Research Articles on SLC39A13	**1.** The Slc39a13-KO mouse represents a novel animal model linking zinc metabolism, BMP/TGF-beta signaling and connective tissue dysfunction.
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