SLC17A6 siRNA – Vesicular Glutamate Transporter 2 (Human)

PRODUCT OVERVIEW

Product Name	SLC17A6, siRNA
Full Product Name	SLC17A6 siRNA (Human)
Product Gene Name	SLC17A6 sirna
Product Synonym Names	DNPI; VGLUT2; Vesicular glutamate transporter 2; VGluT2; Differentiation-associated BNPI; Differentiation-associated Na(+)-dependent inorganic phosphate cotransporter; Solute carrier family 17 member 6
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC17A6 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	64,392 Da
OMIM	607563
3D Structure	ModBase 3D Structure for Q9P2U8
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 SLC17A6 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 SLC17A6 sirna	RNA Interference (RNAi)
Related Product Information for SLC17A6 sirna	MBS8209955 is an siRNA targeting SLC17A6. Also known as SLC17A6 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SLC17A6 expression using RNA interference
Other Notes	Small volumes of SLC17A6 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 SLC17A6. It may not necessarily be applicable to this product.

NCBI GI #	9966811
NCBI GeneID	57084
NCBI Accession #	NP_065079.1
UniProt Primary Accession #	Q9P2U8
UniProt Secondary Accession #	A6NKS2
UniProt Related Accession #	Q9P2U8
GenBank Nucleotide #	NM_020346.2
NCBI Official Full Name	vesicular glutamate transporter 2
NCBI Official Synonym Full Names	solute carrier family 17 (vesicular glutamate transporter), member 6
NCBI Official Symbol	SLC17A6
NCBI Official Synonym Symbols	DNPI; VGLUT2
UniProt Protein Name	Vesicular glutamate transporter 2
UniProt Synonym Protein Names	Differentiation-associated BNPI; Differentiation-associated Na(+)-dependent inorganic phosphate cotransporter; Solute carrier family 17 member 6
Protein Family	Vesicular glutamate transporter
UniProt Gene Name	SLC17A6
UniProt Synonym Gene Names	DNPI; VGLUT2; VGluT2
UniProt Entry Name	VGLU2_HUMAN
NCBI Protein Information	vesicular glutamate transporter 2
UniProt Comments for SLC17A6	SLC17A6: Mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate. Belongs to the major facilitator superfamily. Sodium/anion cotransporter family. VGLUT subfamily. Protein type: Membrane protein, multi-pass; Transporter, SLC family; Transporter; Membrane protein, integral Chromosomal Location of Human Ortholog: 11p14.3 Cellular Component: neuron projection; synaptic vesicle membrane; integral to membrane; cell junction Molecular Function: symporter activity; L-glutamate transmembrane transporter activity Biological Process: sodium ion transport; neurotransmitter uptake; ion transport; transmembrane transport
Research Articles on SLC17A6	**1.** Itch is regulated by VGLUT2-mediated transmission in neurons via Trpv1.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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