SLC6A13 siRNA – Sodium- and Chloride-Dependent GABA Transporter 2 (Mouse)

PRODUCT OVERVIEW

Product Name	SLC6A13, siRNA
Full Product Name	SLC6A13 siRNA (Mouse)
Product Gene Name	SLC6A13 sirna
Product Synonym Names	GABT2; GABT3; GAT-3; GAT2; GAT3; Sodium- and chloride-dependent GABA transporter 2; GAT-2; Sodium- and chloride-dependent GABA transporter 3; GAT-3; Solute carrier family 6 member 13
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC6A13 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	68,285 Da
3D Structure	ModBase 3D Structure for P31649
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 SLC6A13 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 SLC6A13 sirna	RNA Interference (RNAi)
Related Product Information for SLC6A13 sirna	MBS8211273 is an siRNA targeting SLC6A13. Also known as SLC6A13 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit SLC6A13 expression using RNA interference
Other Notes	Small volumes of SLC6A13 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 SLC6A13. It may not necessarily be applicable to this product.

NCBI GI #	21362295
NCBI GeneID	14412
NCBI Accession #	NP_653095.1
UniProt Primary Accession #	P31649
UniProt Related Accession #	P31649
GenBank Nucleotide #	NM_144512.2
NCBI Official Full Name	sodium- and chloride-dependent GABA transporter 2
NCBI Official Synonym Full Names	solute carrier family 6 (neurotransmitter transporter, GABA), member 13
NCBI Official Symbol	Slc6a13
NCBI Official Synonym Symbols	GAT3; Gat2; Gabt3
UniProt Protein Name	Sodium- and chloride-dependent GABA transporter 2
UniProt Synonym Protein Names	Sodium- and chloride-dependent GABA transporter 3; GAT-3; Solute carrier family 6 member 13
Protein Family	Sodium- and chloride-dependent GABA transporter
UniProt Gene Name	Slc6a13
UniProt Synonym Gene Names	Gabt2; Gabt3; Gat-3; Gat2; Gat3; GAT-2; GAT-3
UniProt Entry Name	S6A13_MOUSE
NCBI Protein Information	sodium- and chloride-dependent GABA transporter 2
UniProt Comments for SLC6A13	SLC6A13: Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals. Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A13 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter, SLC family; Transporter; Membrane protein, integral; Membrane protein, multi-pass Cellular Component: membrane; integral to plasma membrane; integral to membrane; plasma membrane Molecular Function: neurotransmitter binding; symporter activity; gamma-aminobutyric acid:sodium symporter activity; neurotransmitter:sodium symporter activity Biological Process: neurotransmitter transport; transport; gamma-aminobutyric acid transport
Research Articles on SLC6A13	**1.** Deletion of the gamma-aminobutyric acid transporter 2 (GAT2 and SLC6A13) gene in mice leads to changes in liver and brain taurine contents.
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