SLC15A2 siRNA – Solute Carrier Family 15 Member 2 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	SLC15A2, siRNA
Full Product Name	SLC15A2 siRNA (Human)
Product Gene Name	SLC15A2 sirna
Product Synonym Names	PEPT2; Solute carrier family 15 member 2; Kidney H(+)/peptide cotransporter; Oligopeptide transporter. kidney isoform; Peptide transporter 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	SLC15A2 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	78,527 Da
OMIM	602339
3D Structure	ModBase 3D Structure for Q16348
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 SLC15A2 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 SLC15A2 sirna	RNA Interference (RNAi)
Related Product Information for SLC15A2 sirna	MBS8207544 is an siRNA targeting SLC15A2. Also known as SLC15A2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit SLC15A2 expression using RNA interference
Other Notes	Small volumes of SLC15A2 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 SLC15A2. It may not necessarily be applicable to this product.

NCBI GI #	226371748
NCBI GeneID	6565
NCBI Accession #	NP_001139470.1
UniProt Primary Accession #	Q16348
UniProt Secondary Accession #	A8K1A5; B4E2A7
UniProt Related Accession #	Q16348
GenBank Nucleotide #	NM_001145998.1
NCBI Official Full Name	solute carrier family 15 member 2 isoform b
NCBI Official Synonym Full Names	solute carrier family 15 (oligopeptide transporter), member 2
NCBI Official Symbol	SLC15A2
NCBI Official Synonym Symbols	PEPT2
UniProt Protein Name	Solute carrier family 15 member 2
UniProt Synonym Protein Names	Kidney H(+)/peptide cotransporter; Oligopeptide transporter, kidney isoform; Peptide transporter 2
Protein Family	Solute carrier family
UniProt Gene Name	SLC15A2
UniProt Synonym Gene Names	PEPT2
UniProt Entry Name	S15A2_HUMAN
NCBI Protein Information	solute carrier family 15 member 2
NCBI Summary for SLC15A2	The mammalian kidney expresses a proton-coupled peptide transporter that is responsible for the absorption of small peptides, as well as beta-lactam antibiotics and other peptide-like drugs, from the tubular filtrate. This transporter, SLC15A2, belongs to the same gene family as SLC15A1 (MIM 600544), the proton-coupled peptide transporter found in the small intestine (Liu et al, 1995 [PubMed 7756356]).[supplied by OMIM, Feb 2011]
UniProt Comments for SLC15A2	SLC15A2: Proton-coupled intake of oligopeptides of 2 to 4 amino acids with a preference for dipeptides. Belongs to the PTR2/POT transporter (TC 2.A.17) family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Transporter, SLC family; Transporter; Membrane protein, integral Chromosomal Location of Human Ortholog: 3q13.33 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: high affinity oligopeptide transporter activity; protein binding; antibiotic transporter activity; dipeptide transporter activity; peptide:hydrogen symporter activity Biological Process: protein transport; proton transport; drug transport; transport; antibiotic transport; ion transport; transmembrane transport; dipeptide transport
Research Articles on SLC15A2	**1.** JAK3 is a powerful regulator of the peptide transporters PEPT1 and PEPT2.
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-sirna/slc15a2/8207544