TSHZ1 siRNA – Teashirt Homolog 1 (Mouse)

PRODUCT OVERVIEW

Product Name	TSHZ1, siRNA
Full Product Name	TSHZ1 siRNA (Mouse)
Product Gene Name	TSHZ1 sirna
Product Synonym Names	KIAA4206; SDCCAG33; TSH1; Teashirt homolog 1; Serologically defined colon cancer antigen 3 homolog
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TSHZ1 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	118,567 Da
3D Structure	ModBase 3D Structure for Q5DTH5
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 TSHZ1 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 TSHZ1 sirna	RNA Interference (RNAi)
Related Product Information for TSHZ1 sirna	MBS8209769 is an siRNA targeting TSHZ1. Also known as TSHZ1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit TSHZ1 expression using RNA interference
Other Notes	Small volumes of TSHZ1 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 TSHZ1. It may not necessarily be applicable to this product.

NCBI GI #	124486833

NCBI GeneID	110796
NCBI Accession #	NP_001074769.1
UniProt Primary Accession #	Q5DTH5
UniProt Secondary Accession #	Q6PE60; Q8VD19; Q9JLD5
UniProt Related Accession #	Q5DTH5
GenBank Nucleotide #	NM_001081300.1
NCBI Official Full Name	teashirt homolog 1
NCBI Official Synonym Full Names	teashirt zinc finger family member 1
NCBI Official Symbol	Tshz1
NCBI Official Synonym Symbols	Tsh1; Mtsh1; NY-CO-33; Sdccag33; mKIAA4206; teashirt1; D18Bwg1409e; 5730407I04Rik
UniProt Protein Name	Teashirt homolog 1
UniProt Synonym Protein Names	Serologically defined colon cancer antigen 3 homolog
Protein Family	Teashirt
UniProt Gene Name	Tshz1
UniProt Synonym Gene Names	Kiaa4206; Sdccag33; Tsh1
UniProt Entry Name	TSH1_MOUSE
NCBI Protein Information	teashirt homolog 1
UniProt Comments for TSHZ1	TSHZ1: Probable transcriptional regulator involved in developmental processes. May act as a transcriptional repressor (Potential). Defects in TSHZ1 are the cause of congenital aural atresia (CAA). A rare anomaly of the ear that involves some degree of failure of the development of the external auditory canal. The malformation can also involve the tympanic membrane, ossicles and middle ear space. The inner ear development is most often normal. Different CAA forms are known. CAA type I is characterized by bony or fibrous atresia of the lateral part of the external auditory canal and an almost normal medial part and middle ear. CAA type II is the most frequent type and is characterized by partial or total aplasia of the external auditory canal. CAA type IIA involves an external auditory canal with either complete bony atresia of the medial part or partial aplasia that ends blindly in a fistula leading to a rudimentary tympanic membrane. CAA type IIB is characterized by bony stenosis of the total length of the external auditory canal. CAA type III involves bony atresia of the external auditory canal and a very small or absent middle-ear cavity. Belongs to the teashirt C2H2-type zinc-finger protein family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding; C2H2-type zinc finger protein Cellular Component: nucleus Molecular Function: protein binding; DNA binding; metal ion binding Biological Process: anterior/posterior pattern formation; regulation of transcription, DNA-dependent; transcription, DNA-dependent; regulation of gene expression; multicellular organismal development; soft palate development; middle ear morphogenesis
Research Articles on TSHZ1	**1.** role for mTsh genes in the establishment of regional identity and specification of cell types in the developing and adult forebrain
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/mouse-sirna/tshz1/8209769