CHST9 siRNA – Carbohydrate Sulfotransferase 9 (Mouse)

PRODUCT OVERVIEW

Product Name	CHST9, siRNA
Full Product Name	CHST9 siRNA (Mouse)
Product Gene Name	CHST9 sirna
Product Synonym Names	Carbohydrate sulfotransferase 9; GalNAc-4-O-sulfotransferase 2; GalNAc-4-ST2; GalNAc4ST-2; N-acetylgalactosamine-4-O-sulfotransferase 2
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CHST9 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	48,004 Da
3D Structure	ModBase 3D Structure for Q76EC5
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 CHST9 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 CHST9 sirna	RNA Interference (RNAi)
Related Product Information for CHST9 sirna	MBS8227818 is an siRNA targeting CHST9. Also known as CHST9 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CHST9 expression using RNA interference
Other Notes	Small volumes of CHST9 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 CHST9. It may not necessarily be applicable to this product.

NCBI GI #	39979614

NCBI GeneID	71367
NCBI Accession #	NP_951010.1
UniProt Primary Accession #	Q76EC5
UniProt Related Accession #	Q76EC5
GenBank Nucleotide #	NM_199055.2
NCBI Official Full Name	carbohydrate sulfotransferase 9
NCBI Official Synonym Full Names	carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 9
NCBI Official Symbol	Chst9
NCBI Official Synonym Symbols	5430438D01Rik
UniProt Protein Name	Carbohydrate sulfotransferase 9
UniProt Synonym Protein Names	GalNAc-4-O-sulfotransferase 2; GalNAc-4-ST2; GalNAc4ST-2; N-acetylgalactosamine-4-O-sulfotransferase 2
Protein Family	Carbohydrate sulfotransferase
UniProt Gene Name	Chst9
UniProt Synonym Gene Names	GalNAc-4-ST2; GalNAc4ST-2
UniProt Entry Name	CHST9_MOUSE
NCBI Protein Information	carbohydrate sulfotransferase 9
UniProt Comments for CHST9	CHST9: Catalyzes the transfer of sulfate to position 4 of non- reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Participates in biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Has a higher activity toward carbonic anhydrase VI than toward lutropin. Only active against terminal GalNAcbeta1,GalNAcbeta. Isoform 2, but not isoform 1, is active toward chondroitin. Belongs to the sulfotransferase 2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Transferase; EC 2.8.2.- Cellular Component: Golgi apparatus; membrane; integral to membrane Molecular Function: phenanthrol sulfotransferase activity; proteoglycan sulfotransferase activity; trans-3,4-dihydrodiolphenanthrene sulfotransferase activity; 2-phenanthrol sulfotransferase activity; galactose 3-O-sulfotransferase activity; transferase activity; 1-phenanthrol sulfotransferase activity; sulfotransferase activity; 3-phenanthrol sulfotransferase activity; N-acetylglucosamine 6-O-sulfotransferase activity; HNK-1 sulfotransferase activity; 4-phenanthrol sulfotransferase activity; cholesterol sulfotransferase activity; heparan sulfate 2-O-sulfotransferase activity; trans-9R,10R-dihydrodiolphenanthrene sulfotransferase activity; N-acetylgalactosamine 4-O-sulfotransferase activity; 9-phenanthrol sulfotransferase activity; heparan sulfate 6-O-sulfotransferase activity Biological Process: sulfur metabolic process; carbohydrate metabolic process; carbohydrate biosynthetic process
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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