HS3ST6 siRNA – Heparan Sulfate Glucosamine 3-O-Sulfotransferase 6 (Mouse)

PRODUCT OVERVIEW

Product Name	HS3ST6, siRNA
Full Product Name	HS3ST6 siRNA (Mouse)
Product Gene Name	HS3ST6 sirna
Product Synonym Names	Heparan sulfate glucosamine 3-O-sulfotransferase 6; Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 6; 3-OST-6; Heparan sulfate 3-O-sulfotransferase 6
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HS3ST6 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	37,415 Da
3D Structure	ModBase 3D Structure for Q5GFD5
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 HS3ST6 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 HS3ST6 sirna	RNA Interference (RNAi)
Related Product Information for HS3ST6 sirna	MBS827398 is an siRNA targeting HS3ST6. Also known as HS3ST6 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit HS3ST6 expression using RNA interference
Other Notes	Small volumes of HS3ST6 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 HS3ST6. It may not necessarily be applicable to this product.

NCBI GI #	60223081
NCBI GeneID	328779
NCBI Accession #	NP_001012402.1
UniProt Primary Accession #	Q5GFD5
UniProt Related Accession #	Q5GFD5
GenBank Nucleotide #	NM_001012402.1
NCBI Official Full Name	heparan sulfate glucosamine 3-O-sulfotransferase 6
NCBI Official Synonym Full Names	heparan sulfate (glucosamine) 3-O-sulfotransferase 6
NCBI Official Symbol	Hs3st6
UniProt Protein Name	Heparan sulfate glucosamine 3-O-sulfotransferase 6
UniProt Synonym Protein Names	Heparan sulfate D-glucosaminyl 3-O-sulfotransferase 6; 3-OST-6; Heparan sulfate 3-O-sulfotransferase 6
Protein Family	Heparan sulfate glucosamine 3-O-sulfotransferase
UniProt Gene Name	Hs3st6
UniProt Synonym Gene Names	3-OST-6; Heparan sulfate 3-O-sulfotransferase 6
UniProt Entry Name	HS3S6_MOUSE
NCBI Protein Information	heparan sulfate glucosamine 3-O-sulfotransferase 6
UniProt Comments for HS3ST6	HS3ST6: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the transfer of a sulfo group to heparan sulfate. The substrate-specific O-sulfation generates an enzyme-modified heparan sulfate which acts as a binding receptor to Herpes Simplex Virus-1 (HSV-1) and permits its entry. Unlike 3- OST-1, does not convert non-anticoagulant heparan sulfate to anticoagulant heparan sulfate. Belongs to the sulfotransferase 1 family. Protein type: Membrane protein, integral; EC 2.8.2.23; Transferase 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; 1-phenanthrol sulfotransferase activity; transferase activity; sulfotransferase activity; 3-phenanthrol sulfotransferase activity; N-acetylglucosamine 6-O-sulfotransferase activity; HNK-1 sulfotransferase activity; 4-phenanthrol sulfotransferase activity; trans-9R,10R-dihydrodiolphenanthrene sulfotransferase activity; cholesterol sulfotransferase activity; heparan sulfate 2-O-sulfotransferase activity; N-acetylgalactosamine 4-O-sulfotransferase activity; 9-phenanthrol sulfotransferase activity; heparin-glucosamine 3-O-sulfotransferase activity; heparan sulfate 6-O-sulfotransferase activity
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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