ST6GAL2 siRNA – Beta-Galactoside Alpha-2,6-Sialyltransferase 2 Isoform a (Human)

PRODUCT OVERVIEW

Product Name	ST6GAL2, siRNA
Full Product Name	ST6GAL2 siRNA (Human)
Product Gene Name	ST6GAL2 sirna
Product Synonym Names	KIAA1877; SIAT2; Beta-galactoside alpha-2.6-sialyltransferase 2; Alpha 2.6-ST 2; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2.6-sialyltransferase 2; ST6Gal II; ST6GalII; hST6Gal II; Sialyltransferase 2
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	ST6GAL2 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	52,927 Da
OMIM	608472
3D Structure	ModBase 3D Structure for Q96JF0
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 ST6GAL2 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 ST6GAL2 sirna	RNA Interference (RNAi)
Related Product Information for ST6GAL2 sirna	MBS8203748 is an siRNA targeting ST6GAL2. Also known as ST6GAL2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit ST6GAL2 expression using RNA interference
Other Notes	Small volumes of ST6GAL2 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 ST6GAL2. It may not necessarily be applicable to this product.

NCBI GI #	215272345
NCBI GeneID	84620
NCBI Accession #	NP_001135823.1
UniProt Primary Accession #	Q96JF0
UniProt Secondary Accession #	Q53QP4; Q86Y44; Q8IUG7; Q96HE4; D3DVK3
UniProt Related Accession #	Q96JF0
GenBank Nucleotide #	NM_001142351.1
NCBI Official Full Name	beta-galactoside alpha-2,6-sialyltransferase 2 isoform a
NCBI Official Synonym Full Names	ST6 beta-galactosamide alpha-2,6-sialyltranferase 2
NCBI Official Symbol	ST6GAL2
NCBI Official Synonym Symbols	SIAT2; ST6GalII
UniProt Protein Name	Beta-galactoside alpha-2,6-sialyltransferase 2
UniProt Synonym Protein Names	CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,6-sialyltransferase 2; ST6Gal II; ST6GalII; hST6Gal II; Sialyltransferase 2
Protein Family	Beta-galactoside alpha-2,6-sialyltransferase
UniProt Gene Name	ST6GAL2
UniProt Synonym Gene Names	KIAA1877; SIAT2; Alpha 2,6-ST 2; ST6GalII; hST6Gal II
UniProt Entry Name	SIAT2_HUMAN
NCBI Protein Information	beta-galactoside alpha-2,6-sialyltransferase 2
NCBI Summary for ST6GAL2	This locus encodes a sialyltransferase. The encoded type II transmembrane protein catalyzes the transfer of sialic acid from CMP to an oligosaccharide substrate. Polymorphisms at this locus may be associated with variations in risperidone response in schizophrenic patients. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2012]
UniProt Comments for ST6GAL2	ST6GAL2: Transfers sialic acid from the donor of substrate CMP- sialic acid to galactose containing acceptor substrates. Has alpha-2,6-sialyltransferase activity toward oligosaccharides that have the Gal-beta-1,4-GlcNAc sequence at the non-reducing end of their carbohydrate groups, but it has weak or no activities toward glycoproteins and glycolipids. Belongs to the glycosyltransferase 29 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.4.99.1; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 2q12.3 Cellular Component: Golgi membrane; integral to membrane Molecular Function: beta-galactoside alpha-2,6-sialyltransferase activity Biological Process: cellular protein metabolic process; dolichol-linked oligosaccharide biosynthetic process; multicellular organismal development; protein amino acid N-linked glycosylation via asparagine; post-translational protein modification; oligosaccharide metabolic process; growth
Research Articles on ST6GAL2	**1.** Clinical trial of gene-disease association and gene-environment interaction. (HuGE Navigator)
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