GGTA1 siRNA – N-Acetyllactosaminide Alpha-1,3-Galactosyltransferase Isoform 2 (Mouse)

PRODUCT OVERVIEW

Product Name	GGTA1, siRNA
Full Product Name	GGTA1 siRNA (Mouse)
Product Gene Name	GGTA1 sirna
Product Synonym Names	GGTA-1; N-acetyllactosaminide alpha-1.3-galactosyltransferase; UDP-galactose:beta-D-galactosyl-1.4-N-acetyl-D-glucosaminide alpha-1.3-galactosyltransferase; Galactosyltransferase
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GGTA1 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	43,962 Da
3D Structure	ModBase 3D Structure for P23336
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 GGTA1 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 GGTA1 sirna	RNA Interference (RNAi)
Related Product Information for GGTA1 sirna	MBS8228710 is an siRNA targeting GGTA1. Also known as GGTA1 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit GGTA1 expression using RNA interference
Other Notes	Small volumes of GGTA1 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 GGTA1. It may not necessarily be applicable to this product.

NCBI GI #	224922810
NCBI GeneID	14594
NCBI Accession #	NP_001139293.1
UniProt Primary Accession #	P23336
UniProt Secondary Accession #	Q91V22
UniProt Related Accession #	P23336
GenBank Nucleotide #	NM_001145821.2
NCBI Official Full Name	N-acetyllactosaminide alpha-1,3-galactosyltransferase isoform 2
NCBI Official Synonym Full Names	glycoprotein galactosyltransferase alpha 1, 3
NCBI Official Symbol	Ggta1
NCBI Official Synonym Symbols	Gal; GALT; Ggta; Ggta-1; AW108479; alpha Gal; alpha3GalT
UniProt Protein Name	N-acetyllactosaminide alpha-1,3-galactosyltransferase
UniProt Synonym Protein Names	UDP-galactose:beta-D-galactosyl-1,4-N-acetyl-D-glucosaminide alpha-1,3-galactosyltransferase; Galactosyltransferase
Protein Family	N-acetyllactosaminide alpha-1,3-galactosyltransferase
UniProt Gene Name	Ggta1
UniProt Synonym Gene Names	Ggta-1; Galactosyltransferase
UniProt Entry Name	GGTA1_MOUSE
NCBI Protein Information	N-acetyllactosaminide alpha-1,3-galactosyltransferase
NCBI Summary for GGTA1	This gene encodes a member of the galactosyltransferase family of intracellular, membrane-bound enzymes that are involved in the biosynthesis of glycoproteins and glycolipids. The encoded protein catalyzes the transfer of galactose from UDP-galactose to N-acetyllactosamine in an alpha(1,3) linkage to form galactose alpha(1,3)-galactose. Mice lacking the encoded protein develop cortical cataracts. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2015]
UniProt Comments for GGTA1	Ggta1: Transfer of galactose from UDP-galactose to an acceptor molecule (R). Belongs to the glycosyltransferase 6 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 2.4.1.87 Cellular Component: Golgi apparatus; Golgi cisterna; membrane; integral to membrane Molecular Function: transferase activity; transferase activity, transferring glycosyl groups; transferase activity, transferring hexosyl groups; metal ion binding; N-acetyllactosaminide 3-alpha-galactosyltransferase activity Biological Process: protein amino acid galactosylation at cell surface; carbohydrate metabolic process
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