FUT1 siRNA – Galactoside 2-Alpha-L-Fucosyltransferase 1 (Rat)

PRODUCT OVERVIEW

Product Name	FUT1, siRNA
Full Product Name	FUT1 siRNA (Rat)
Product Gene Name	FUT1 sirna
Product Synonym Names	FTA; Galactoside 2-alpha-L-fucosyltransferase 1; Alpha 1.2-fucosyltransferase A; Alpha(1.2)FT 1; Fucosyltransferase 1; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1
Host	Synthetic
Species Reactivity	Rat
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FUT1 siRNA (Rat) 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	42,417 Da
3D Structure	ModBase 3D Structure for Q10980
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 rat FUT1 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 FUT1 sirna	RNA Interference (RNAi)
Related Product Information for FUT1 sirna	MBS8237095 is an siRNA targeting FUT1. Also known as FUT1 siRNA (Rat). Reactive in Rat. Host: Synthetic. siRNA to inhibit FUT1 expression using RNA interference
Other Notes	Small volumes of FUT1 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 FUT1. It may not necessarily be applicable to this product.

NCBI GI #	13676841

NCBI GeneID	81919
NCBI Accession #	NP_112515.1
UniProt Primary Accession #	Q10980
UniProt Secondary Accession #	Q549F8
UniProt Related Accession #	Q10980
GenBank Nucleotide #	NM_031236.1
NCBI Official Full Name	galactoside 2-alpha-L-fucosyltransferase 1
NCBI Official Synonym Full Names	fucosyltransferase 1
NCBI Official Symbol	Fut1
NCBI Official Synonym Symbols	Futa
UniProt Protein Name	Galactoside 2-alpha-L-fucosyltransferase 1
UniProt Synonym Protein Names	Alpha 1,2-fucosyltransferase A; Alpha(1,2)FT 1; Fucosyltransferase 1; GDP-L-fucose:beta-D-galactoside 2-alpha-L-fucosyltransferase 1
Protein Family	Galactoside 2-alpha-L-fucosyltransferase
UniProt Gene Name	Fut1
UniProt Synonym Gene Names	Fta
UniProt Entry Name	FUT1_RAT
NCBI Protein Information	galactoside 2-alpha-L-fucosyltransferase 1
NCBI Summary for FUT1	catalyzes the formation of H antigen, a precursor of A and B antigens [RGD, Feb 2006]
UniProt Comments for FUT1	FUT1: Creates a soluble precursor oligosaccharide FuC-alpha ((1,2)Galbeta-) called the H antigen which is an essential substrate for the final step in the soluble A and B antigen synthesis pathway. H and Se enzymes fucosylate the same acceptor substrates but exhibit different Km values. Belongs to the glycosyltransferase 11 family. Protein type: Glycan Metabolism - glycosphingolipid biosynthesis - globo series; Glycan Metabolism - glycosphingolipid biosynthesis - lacto and neolacto series; EC 2.4.1.69; Transferase; Membrane protein, integral Cellular Component: integral to membrane Molecular Function: galactoside 2-alpha-L-fucosyltransferase activity Biological Process: protein amino acid glycosylation; L-fucose catabolic process
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