GCNT4 siRNA – Beta-1,3-Galactosyl-O-Glycosyl-Glycoprotein Beta-1,6-N-Acetylglucosaminyltransferase 4 (Human)

PRODUCT OVERVIEW

Product Name	GCNT4, siRNA
Full Product Name	GCNT4 siRNA (Human)
Product Gene Name	GCNT4 sirna
Product Synonym Names	Beta-1.3-galactosyl-O-glycosyl-glycoprotein beta-1.6-N-acetylglucosaminyltransferase 4; Core 2-branching enzyme 3; Core2-GlcNAc-transferase 3; C2GnT3
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	GCNT4 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	53,052 Da
3D Structure	ModBase 3D Structure for Q9P109
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 GCNT4 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 GCNT4 sirna	RNA Interference (RNAi)
Related Product Information for GCNT4 sirna	MBS828857 is an siRNA targeting GCNT4. Also known as GCNT4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit GCNT4 expression using RNA interference
Other Notes	Small volumes of GCNT4 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 GCNT4. It may not necessarily be applicable to this product.

NCBI GI #	7706127
NCBI GeneID	51301
NCBI Accession #	NP_057675.1
UniProt Primary Accession #	Q9P109
UniProt Related Accession #	Q9P109
GenBank Nucleotide #	NM_016591.2
NCBI Official Full Name	beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4
NCBI Official Synonym Full Names	glucosaminyl (N-acetyl) transferase 4, core 2
NCBI Official Symbol	GCNT4
NCBI Official Synonym Symbols	C2GNT3
UniProt Protein Name	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4
UniProt Synonym Protein Names	Core 2-branching enzyme 3; Core2-GlcNAc-transferase 3; C2GnT3
Protein Family	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase
UniProt Gene Name	GCNT4
UniProt Synonym Gene Names	C2GnT3
UniProt Entry Name	GCNT4_HUMAN
NCBI Protein Information	beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 4
UniProt Comments for GCNT4	GCNT4: Glycosyltransferase that mediates core 2 O-glycan branching, an important step in mucin-type biosynthesis. Does not have core 4 O-glycan or I-branching enzyme activity. Belongs to the glycosyltransferase 14 family. Protein type: Glycan Metabolism - O-glycan biosynthesis; EC 2.4.1.102; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 5q12 Cellular Component: Golgi membrane; integral to membrane Molecular Function: beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase activity; N-acetyllactosaminide beta-1,6-N-acetylglucosaminyltransferase activity Biological Process: protein amino acid O-linked glycosylation; tissue morphogenesis; cellular protein metabolic process; O-glycan processing; carbohydrate metabolic process; homeostasis of number of cells; post-translational protein modification; thyroid hormone metabolic process
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