NR6A1 siRNA – Nuclear Receptor Subfamily 6 Group A Member 1 Isoform 4 (Human)

PRODUCT OVERVIEW

Product Name	NR6A1, siRNA
Full Product Name	NR6A1 siRNA (Human)
Product Gene Name	NR6A1 sirna
Product Synonym Names	GCNF; Nuclear receptor subfamily 6 group A member 1; Germ cell nuclear factor; GCNF; hGCNF; Retinoid receptor-related testis-specific receptor; RTR; hRTR
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NR6A1 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	53,908 Da
OMIM	602778
3D Structure	ModBase 3D Structure for Q15406
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 NR6A1 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 NR6A1 sirna	RNA Interference (RNAi)
Related Product Information for NR6A1 sirna	MBS8203559 is an siRNA targeting NR6A1. Also known as NR6A1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NR6A1 expression using RNA interference
Other Notes	Small volumes of NR6A1 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 NR6A1. It may not necessarily be applicable to this product.

NCBI GI #	513788273
NCBI GeneID	2649
NCBI Accession #	NP_001265475.1
UniProt Primary Accession #	Q15406
UniProt Secondary Accession #	O00551; O00603; Q5T6F4; Q8NHQ0; Q92898; Q99802
UniProt Related Accession #	Q15406
GenBank Nucleotide #	NM_001278546.1
NCBI Official Full Name	nuclear receptor subfamily 6 group A member 1 isoform 4
NCBI Official Synonym Full Names	nuclear receptor subfamily 6, group A, member 1
NCBI Official Symbol	NR6A1
NCBI Official Synonym Symbols	RTR; GCNF; NR61; hRTR; CT150; GCNF1; hGCNF
UniProt Protein Name	Nuclear receptor subfamily 6 group A member 1
UniProt Synonym Protein Names	Germ cell nuclear factor; GCNF; hGCNF; Retinoid receptor-related testis-specific receptor; RTR; hRTR
Protein Family	Nuclear receptor subfamily
UniProt Gene Name	NR6A1
UniProt Synonym Gene Names	GCNF; GCNF; hGCNF; RTR; hRTR
UniProt Entry Name	NR6A1_HUMAN
NCBI Protein Information	nuclear receptor subfamily 6 group A member 1
NCBI Summary for NR6A1	This gene encodes an orphan nuclear receptor which is a member of the nuclear hormone receptor family. Its expression pattern suggests that it may be involved in neurogenesis and germ cell development. The protein can homodimerize and bind DNA, but in vivo targets have not been identified. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jun 2013]
UniProt Comments for NR6A1	NR6A1: Orphan nuclear receptor. Binds to a response element containing the sequence 5'-TCAAGGTCA-3'. May be involved in the regulation of gene expression in germ cell development during gametogenesis. Homodimer. Interacts with UIMC1. Shows highest expression in the germ cells of the adult testis. Belongs to the nuclear hormone receptor family. NR6 subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 9q33.3 Cellular Component: nucleoplasm; transcription factor complex Molecular Function: ligand-dependent nuclear receptor activity; protein homodimerization activity; DNA binding; zinc ion binding; sequence-specific DNA binding; steroid hormone receptor activity Biological Process: transcription initiation from RNA polymerase II promoter; cell proliferation; intracellular receptor-mediated signaling pathway; gamete generation; gene expression; positive regulation of transcription from RNA polymerase II promoter; spermatogenesis; steroid hormone mediated signaling; negative regulation of transcription from RNA polymerase II promoter
Research Articles on NR6A1	**1.** Findings show a role for Gcnf as a regulator of iPS cell pluripotency gene expression. It also demonstrates that reactivation of the Gcnf gene may serve as a marker to distinguish completely reprogrammed iPS cells from incompletely pluripotent cells.

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