NNMT siRNA – Nicotinamide N-Methyltransferase (Human)

PRODUCT OVERVIEW

Product Name	NNMT, siRNA
Full Product Name	NNMT siRNA (Human)
Product Gene Name	NNMT sirna
Product Synonym Names	Nicotinamide N-methyltransferase
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NNMT 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	29,574 Da
OMIM	600008
3D Structure	ModBase 3D Structure for P40261
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 NNMT 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 NNMT sirna	RNA Interference (RNAi)
Related Product Information for NNMT sirna	MBS8225255 is an siRNA targeting NNMT. Also known as NNMT siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit NNMT expression using RNA interference
Other Notes	Small volumes of NNMT 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 NNMT. It may not necessarily be applicable to this product.

NCBI GI #	5453790
NCBI GeneID	4837
NCBI Accession #	NP_006160.1
UniProt Primary Accession #	P40261
UniProt Related Accession #	P40261
GenBank Nucleotide #	NM_006169.2
NCBI Official Full Name	nicotinamide N-methyltransferase
NCBI Official Synonym Full Names	nicotinamide N-methyltransferase
NCBI Official Symbol	NNMT
UniProt Protein Name	Nicotinamide N-methyltransferase
UniProt Gene Name	NNMT
UniProt Entry Name	NNMT_HUMAN
NCBI Protein Information	nicotinamide N-methyltransferase
NCBI Summary for NNMT	N-methylation is one method by which drug and other xenobiotic compounds are metabolized by the liver. This gene encodes the protein responsible for this enzymatic activity which uses S-adenosyl methionine as the methyl donor. [provided by RefSeq, Jul 2008]
UniProt Comments for NNMT	NNMT: Catalyzes the N-methylation of nicotinamide and other pyridines to form pyridinium ions. This activity is important for biotransformation of many drugs and xenobiotic compounds. Belongs to the NNMT/PNMT/TEMT family. Protein type: EC 2.1.1.1; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide; Methyltransferase Chromosomal Location of Human Ortholog: 11q23.1 Cellular Component: cytosol Molecular Function: nicotinamide N-methyltransferase activity Biological Process: methylation; response to drug; organ regeneration; xenobiotic metabolic process; response to organic nitrogen
Research Articles on NNMT	**1.** results suggest that the NNMT SNP rs694539 may have a role in the etiology of schizophrenia in a Han Chinese female population
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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