INO80 siRNA – DNA Helicase INO80 (Mouse)

PRODUCT OVERVIEW

Product Name	INO80, siRNA
Full Product Name	INO80 siRNA (Mouse)
Product Gene Name	INO80 sirna
Product Synonym Names	INOC1; KIAA1259; DNA helicase INO80; INO80 complex subunit A; Putative DNA helicase INO80 complex homolog 1
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	INO80 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	175,533 Da
3D Structure	ModBase 3D Structure for Q6ZPV2
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 INO80 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 INO80 sirna	RNA Interference (RNAi)
Related Product Information for INO80 sirna	MBS8227346 is an siRNA targeting INO80. Also known as INO80 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit INO80 expression using RNA interference
Other Notes	Small volumes of INO80 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 INO80. It may not necessarily be applicable to this product.

NCBI GI #	62234443

NCBI GeneID	68142
NCBI Accession #	NP_080850.2
UniProt Primary Accession #	Q6ZPV2
UniProt Secondary Accession #	Q6P7V0; Q6PCP1; Q8C9T7; A2AQP8
UniProt Related Accession #	Q6ZPV2
GenBank Nucleotide #	NM_026574.3
NCBI Official Full Name	DNA helicase INO80
NCBI Official Synonym Full Names	INO80 homolog (S. cerevisiae)
NCBI Official Symbol	Ino80
NCBI Official Synonym Symbols	Inoc1; 2310079N15Rik; 4632409L19Rik
UniProt Protein Name	DNA helicase INO80
UniProt Synonym Protein Names	INO80 complex subunit A; Putative DNA helicase INO80 complex homolog 1
Protein Family	DNA helicase
UniProt Gene Name	Ino80
UniProt Synonym Gene Names	Inoc1; Kiaa1259
UniProt Entry Name	INO80_MOUSE
NCBI Protein Information	DNA helicase INO80
UniProt Comments for INO80	INOC1: DNA helicase and probable main scaffold component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair; according to PubMed:20687897 the contribution to DNA double-strand break repair appears to be largely indirect through transcriptional regulation. Recruited by YY1 to YY1-activated genes, where it acts as an essential coactivator. Binds DNA. In vitro, has double stranded DNA-dependent ATPase activity. Involved in UV-damage excision repair, DNA replication and chromosome segregation during normal cell division cycle. Belongs to the SNF2/RAD54 helicase family. Protein type: EC 3.6.4.12; Helicase; DNA-binding Cellular Component: microtubule; nucleus Molecular Function: DNA helicase activity; hydrolase activity, acting on acid anhydrides; DNA binding; hydrolase activity; ATPase activity; nucleotide binding; actin binding; helicase activity; alpha-tubulin binding; ATP binding Biological Process: mitosis; mitotic sister chromatid segregation; spindle assembly; cell cycle; DNA repair; positive regulation of cell growth; double-strand break repair via homologous recombination; DNA duplex unwinding; DNA recombination; chromatin remodeling; cell division; double-strand break repair; positive regulation of transcription from RNA polymerase II promoter; response to DNA damage stimulus
Research Articles on INO80	**1.** data reveal an essential role for INO80 in the expression of the pluripotency network and illustrate the coordination among chromatin remodeler, transcription factor, and histone-modifying enzyme in the regulation of the pluripotent state.
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