DAZAP1 siRNA – DAZ-Associated Protein 1 Isoform B (Human)

PRODUCT OVERVIEW

Product Name	DAZAP1, siRNA
Full Product Name	DAZAP1 siRNA (Human)
Product Gene Name	DAZAP1 sirna
Product Synonym Names	DAZ-associated protein 1; Deleted in azoospermia-associated protein 1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	DAZAP1 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	40,530 Da
OMIM	607430
3D Structure	ModBase 3D Structure for Q96EP5
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 DAZAP1 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 DAZAP1 sirna	RNA Interference (RNAi)
Related Product Information for DAZAP1 sirna	MBS8211797 is an siRNA targeting DAZAP1. Also known as DAZAP1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit DAZAP1 expression using RNA interference
Other Notes	Small volumes of DAZAP1 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 DAZAP1. It may not necessarily be applicable to this product.

NCBI GI #	25470886
NCBI GeneID	26528
NCBI Accession #	NP_061832.2
UniProt Primary Accession #	Q96EP5
UniProt Secondary Accession #	Q96MJ3; Q9NRR9
UniProt Related Accession #	Q96EP5
GenBank Nucleotide #	NM_018959.3
NCBI Official Full Name	DAZ-associated protein 1 isoform b
NCBI Official Synonym Full Names	DAZ associated protein 1
NCBI Official Symbol	DAZAP1
UniProt Protein Name	DAZ-associated protein 1
UniProt Synonym Protein Names	Deleted in azoospermia-associated protein 1
Protein Family	DAZ-associated protein
UniProt Gene Name	DAZAP1
UniProt Entry Name	DAZP1_HUMAN
NCBI Protein Information	DAZ-associated protein 1
NCBI Summary for DAZAP1	In mammals, the Y chromosome directs the development of the testes and plays an important role in spermatogenesis. A high percentage of infertile men have deletions that map to regions of the Y chromosome. The DAZ (deleted in azoospermia) gene cluster maps to the AZFc region of the Y chromosome and is deleted in many azoospermic and severely oligospermic men. It is thought that the DAZ gene cluster arose from the transposition, amplification, and pruning of the ancestral autosomal gene DAZL also involved in germ cell development and gametogenesis. This gene encodes a RNA-binding protein with two RNP motifs that was originally identified by its interaction with the infertility factors DAZ and DAZL. Two isoforms are encoded by transcript variants of this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for DAZAP1	DAZAP1: a ubiquitous RNA-binding protein highly expressed in the human and the mouse testes. In round spermatids, it localizes mainly in the nuclei, whereas in elongated spermatids, it localizes to the cytoplasm. Expressed at lower level in thymus and weakly expressed in heart, liver, brain, placenta, lung, skeletal muscle, kidney and pancreas. Fusion proteins between DAZAP1 and MEF2D have been observed in the TS-2 acute lymphoblastic leukemia (ALL) cell line. Two alternatively spliced isoforms have been described. Protein type: RNA-binding; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: nucleoplasm; cytoplasm Molecular Function: RNA binding; nucleotide binding Biological Process: positive regulation of nuclear mRNA splicing, via spliceosome; cell proliferation; spermatogenesis; cell differentiation; maternal placenta development
Research Articles on DAZAP1	**1.** this study reports the mapping of a 42-amino acid segment (N42) at the N-terminus of DAZAP1 that is both necessary and sufficient for its transcription-dependent nuclear localization.
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