Meiotic Nuclear Division Protein 1 Homolog (MND1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Meiotic nuclear division protein 1 homolog (MND1), Recombinant Protein
Full Product Name	Recombinant Human Meiotic nuclear division protein 1 homolog (MND1)
Product Gene Name	MND1 recombinant protein
Product Synonym Gene Name	MND1
Sequence	SKKKGLSAEE KRTRMMEIFS ETKDVFQLKD LEKIAPKEKG ITAMSVKEVL QSLVDDGMVD CERIGTSNYY WAFPSKALHA RKHKLEVLES QLSEGSQKHA SLQKSIEKAK IGRCETEERT RLAKELSSLR DQREQLKAEV EKYKDCDPQV VEEIRQANKV AKEAANRWTD NIFAIKSWAK RKFGFEENKI DRTFGIPEDF DYID
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	23,753 Da
Sequence Positions	2-205, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	611422
3D Structure	ModBase 3D Structure for Q9BWT6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MND1 recombinant protein	MBS1388358 is a recombinant protein targeting MND1. Also known as Recombinant Human Meiotic nuclear division protein 1 homolog (MND1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MND1 recombinant protein 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 MND1. It may not necessarily be applicable to this product.

NCBI GI #	14149769
NCBI GeneID	84057
NCBI Accession #	NP_115493.1
UniProt Primary Accession #	Q9BWT6
UniProt Secondary Accession #	B2R5F9

UniProt Related Accession #	Q9BWT6
GenBank Nucleotide #	NM_032117.3
NCBI Official Full Name	meiotic nuclear division protein 1 homolog isoform 1
NCBI Official Synonym Full Names	meiotic nuclear divisions 1
NCBI Official Symbol	MND1
NCBI Official Synonym Symbols	GAJ
UniProt Protein Name	Meiotic nuclear division protein 1 homolog
Protein Family	Meiotic nuclear division protein
UniProt Gene Name	MND1
NCBI Protein Information	meiotic nuclear division protein 1 homolog
NCBI Summary for MND1	The product of the MND1 gene associates with HOP2 (MIM 608665) to form a stable heterodimeric complex that binds DNA and stimulates the recombinase activity of RAD51 (MIM 179617) and DMC1 (MIM 602721) (Chi et al., 2007 [PubMed 17639080]). Both the MND1 and HOP2 genes are indispensable for meiotic recombination.[supplied by OMIM, Mar 2008]
UniProt Comments for MND1	Required for proper homologous chromosome pairing and efficient cross-over and intragenic recombination during meiosis (). Stimulates both DMC1- and RAD51-mediated homologous strand assimilation, which is required for the resolution of meiotic double-strand breaks.
Research Articles on MND1	**1.** Data indicate that the positive expression of studied genes fertilization rate for GAPDHS positive subset was 66%, ACR - 71%, SPATA22 - 68%, MND1 - 70%, pregnancy rates were 8%, 6%, 18% and 36% respectively.
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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