DNA Replication Licensing Factor Mcm4-A (mcm4-a) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA replication licensing factor mcm4-A (mcm4-a), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis DNA replication licensing factor mcm4-A (mcm4-a), partial
Product Gene Name	mcm4-a recombinant protein
Product Synonym Gene Name	mcm4-a
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	96,635 Da
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.
3D Structure	ModBase 3D Structure for Q5XK83
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mcm4-a recombinant protein	MBS1404699 is a recombinant protein targeting mcm4-a. Also known as Recombinant Xenopus laevis DNA replication licensing factor mcm4-A (mcm4-a), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mcm4-a 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 mcm4-a. It may not necessarily be applicable to this product.

NCBI GI #	148236609
NCBI GeneID	373601
NCBI Accession #	NP_001079069.1
UniProt Primary Accession #	Q5XK83
UniProt Secondary Accession #	O42589
UniProt Related Accession #	Q5XK83
GenBank Nucleotide #	NM_001085600.2
NCBI Official Full Name	DNA replication licensing factor mcm4-A
NCBI Official Synonym Full Names	minichromosome maintenance complex component 4 S homeolog

NCBI Official Symbol	mcm4.S
NCBI Official Synonym Symbols	mcm4; cdc21; mcm4-a; mcm4-b; mcm4.L
UniProt Protein Name	DNA replication licensing factor mcm4-A
UniProt Synonym Protein Names	CDC21 homolog-A; Minichromosome maintenance protein 4-A; xMCM4-A; P1-CDC21-A; p98
Protein Family	DNA replication licensing factor
UniProt Gene Name	mcm4-a
UniProt Synonym Gene Names	xMCM4-A
NCBI Protein Information	DNA replication licensing factor mcm4-A
UniProt Comments for mcm4-a	Acts as component of the mcm2-7 complex (mcm complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the mcm2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity.
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