

# Recombinant Human minichromosome maintenance complex component 7, His-tagged

**Cat. No.** MCM7-427H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	MCM7, 1-414aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-414 a.a.
<b>Description</b>	<p>MCM7 is one of the highly conserved mini-chromosome maintenance proteins (MCM) that are essential for the initiation of eukaryotic genome replication. The hexameric protein complex formed by the MCM proteins is a key component of the pre-replication complex (pre_RC) and may be involved in the formation of replication forks and in the recruitment of other DNA replication related proteins. The MCM complex consisting of this protein and MCM2, 4 and 6 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. Cyclin D1-dependent kinase, CDK4, is found to associate with this protein, and may regulate the binding of this protein with the tumorsuppressor protein RB1/RB. Recombinant human MCM7 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
<b>Molecular Mass</b>	48.6kDa (437aa)
<b>AA Sequence</b>	MGSSHHHHHH SSSLVPRGSH MGSMVVATYT CDQCGAETYQ PIQSPTFMPL

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IMCPSQECQT NRS GGRLYLQ TRGSRFIKFQ EMKMQEHS DQ VPVGNIPRSI  
 TVLVEGENTR IAQPGDHVSV TGIFLPILRT GFRQVVQGLL SETYLEAHRI  
 VKMKNKSEDE SGAGELTREE LRQIAEEDFY EKLAASIAPE IYGHEDVKKA  
 LLLLLVGGVD QSPRGMKIRG NINICLMGDP GVAKSQLLSY IDRLAPRSQY  
 TTGRGSSGVG LTA AVL RDSV SGELTLEGGA LVLADQGVCC IDEFDKMAEA  
 DRTAIHEVME QQTISI AKAG ILTTLNARCS ILAAANPAYG RYNPRRSLEQ  
 NIQLPAALLS RFDLLWLIQD RPDRDNDLRL AQHITYVHQH SRQPPSQFEP  
 LDMKLMRRYI AMCREKQPMV PESLADYITA AYVEMRR

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [MCM7 minichromosome maintenance complex component 7 \[ Homo sapiens \]](#)

**Official Symbol** MCM7

**Synonyms** MCM7; minichromosome maintenance complex component 7; MCM2, MCM7 minichromosome maintenance deficient 7 (*S. cerevisiae*) , minichromosome maintenance deficient (*S. cerevisiae*) 7; DNA replication licensing factor MCM7; CDC47; CDC47 homolog; homolog of *S. cerevisiae* Cdc47; minichromosome maintenance deficient 7; MCM2; P85MCM; P1CDC47; PNAS146; P1.1-MCM3;

**Gene ID** [4176](#)

**mRNA Refseq** [NM\\_005916](#)

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<b>Protein Refseq</b>	NP_005907
<b>MIM</b>	600592
<b>UniProt ID</b>	P33993
<b>Chromosome Location</b>	7q21.3-q22.1
<b>Pathway</b>	Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of the pre-replicative complex, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem;
<b>Function</b>	ATP binding; contributes_to ATP-dependent DNA helicase activity; contributes_to DNA binding; hydrolase activity; nucleotide binding; protein binding; single-stranded DNA binding;

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