

## Recombinant Human MCM7 Protein, Myc/DDK-tagged

Cat. No. MCM7-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant protein of human minichromosome maintenance complex component 7 (MCM7), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	The protein encoded by this gene 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. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
<b>Molecular Mass</b>	81.1 kDa
<b>AA Sequence</b>	MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVA EDDPELVDSICENARRYAKLFADAVQELLPQYKEREVVNKDVLVDVYIEHRLMMEQRS RDPGMVRSPQNQYPAELMRRFELYFQGPSSNKPRVIREVRADSVGKLVTVRGIVTR VSEVKPKMVVATYTCDCQGAETYQPIQSPTFMPLIMCPSQECQTNRSGGRLYLQTR

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GSRFIKFQEMKMQEHSQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPILRT  
 GFRQVVQGLLSETYLEAHRIVKMNKSEDESAGELTREELRQIAEEDFYEKLAASI  
 APEIYGHEDVKKALLLLLGGVDQSPRGMKIRGNINICLMGDPGVAKSQLLSYIDRLA  
 PRSQYTTGRGSSGVLTAAVLRDSVSGELTLEGGALVLADQGVCCIDEFDKMAEAD  
 RTAIHEVMEQQTISIAKAGILTTLNARCSILAAANPAYGRYNPRRSLEQNIQLPAALLS  
 RFDLLWLIQDRPDRDNDLRLAQHITYVHQHSRQPPSQFEPLDMKLMRRYIAMCREK  
 QPMVPESLADYITAAYVEMRREAWASKDATYTSARTLLAILRLSTALARLRMVDVVE  
 KEDVNEAIRLMEMSKDSSLGDKGQTARTQRPADVIFATVRELVSGGRSVRFSEAEQ  
 RCVSRGFTPAQFQAALDEYEELNVWQVNASRTRITFV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade.

**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

## GENE INFORMATION

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

**Official Symbol** MCM7 minichromosome maintenance complex component 7 [ Homo sapiens (human) ]

**Synonyms** MCM7; minichromosome maintenance complex component 7; MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3; DNA replication licensing

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factor MCM7; CDC47 homolog; homolog of *S. cerevisiae* Cdc47; minichromosome maintenance deficient 7; protein phosphatase 1, regulatory subunit 104; EC 3.6.4.12

**Gene ID** 4176

**mRNA Refseq** NM\_005916

**Protein Refseq** NP\_005907

**MIM** 600592

**UniProt ID** P33993

**SDS-PAGE** Coomassie blue staining of purified MCM7 protein. The protein was produced from HEK293T cells transfected with MCM7 cDNA clone using MegaTran 2.0.

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