

Recombinant Human MCM7 Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Recombinant protein of human minichromosome maintenance complex component 7 (MCM7), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	81.1 kDa
AA Sequence	MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVA EDDPELVDSICENARRYAKLFADAVQELLPQYKEREVVNKDVLVDVYIEHRLMMEQRS RDPGMVRSPQNQYPAELMRRFELYFQGPSSNKPRVIREVRADSVGKLVTVRGIVTR VSEVKPKMVVATYTCDCQGAETYQPIQSPTFMPLIMCPSQECQTNRSGGRLYLQTR

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GSRFIKFQEMKMQEHSQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPILRT
 GFRQVVQGLLSEYLEAHRIVKMNKSEDDDESAGELTREELRQIAEEDFYEKLAASI
 APEIYGHEDVKKALLLLLVGVDQSPRGMKIRGNINICLMGDPGVAKSQLLSYIDRLA
 PRSQYTTGRGSSGVGLTAAVLRDSVSGELTLEGGALVLADQGVCCIDEFDKMAEAD
 RTAIHEVMEQQTISIAKAGILTTLNARCSILAAANPAYGRYNPRRSLEQNIQLPAALLS
 RFDLLWLIQDRPDRDNDLRLAQHITYVHQHSRQPPSQFEPLDMKLMRRYIAMCREK
 QPMVPESLADYITAAYVEMRREAWASKDATYTSARTLLAILRLSTALARLRMVDVVE
 KEDVNEAIRLMEMSKDSLLGDKGTARTQRPADVIFATVRELVSGGRSVRFSEAEQ
 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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