Recombinant Full Length Human MCM7 Protein, C-Flag-tagged

Cat. No. MCM7-663HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MCM7 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	81.1 kDa
AA Sequence	MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRLAHREQVALYVDLDDVA EDDPELVDSICENA RRYAKLFADAVQELLPQYKEREVVNKDVLDVYIEHRLMMEQR SRDPGMVRSPQNQYPAELMRRFELYFQG PSSNKPRVIREVRADSVGKLVTVRGIV

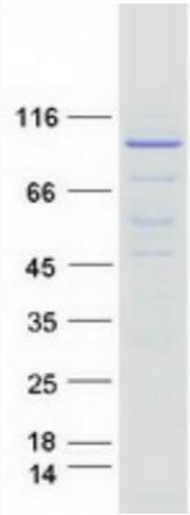
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	TRVSEVKPKMVVATYTCDQCGAETYQPIQSPTFMPLIMCPSQE CQTNRSGGRLYL QTRGSRFIKFQEMKMQEHSDQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPI LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDDESGAGELTREELRQIAEEDFYEKLA ASIAPEIYGHEDV KKALLLLLVGGVDQSPRGMKIRGNINICLMGDPGVAKSQLLSYID RLAPRSQYTTGRGSSGVGLTAAVLR DSVSGELTLEGGALVLADQGVCCIDEFDKMA EADRTAIHEVMEQQTISIAKAGILTTLNARCSILAAANP AYGRYNPRRSLEQNIQLPAA LLSRFDLLWLIQDRPDRDNDLRLAQHITYVHQHSRQPPSQFEPLDMKLMR RYIAMC REKQPMVPESLADYITAAYVEMRREAWASKDATYTSARTLLAILRLSTALARLRMVD VVEKEDV NEAIRLMEMSKDSLLGDKGQTARTQRPADVIFATVRELVSGGRSVRFSE AEQRCVSRGFTPAQFQAALDE YEELNVWQVNASRTRITFVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transcription Factors
Protein Pathways	Cell cycle, DNA replication
Full Length	Full L.

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GENE INFORMATION

Gene Name	MCM7 minichromosome maintenance complex component 7 [Homo sapiens (human)]
Official Symbol	MCM7
Synonyms	MCM2; CDC47; P85MCM; P1CDC47; PNAS146; PPP1R104; P1.1-MCM3
Gene ID	4176
mRNA Refseq	NM_005916.5
Protein Refseq	NP_005907.3
MIM	600592
UniProt ID	P33993



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	Coomassie blue staining of purified MCM7 protein.

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