

Recombinant Human MCM7

Cat. No. MCM7-28043TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MCM7 with N terminal proprietary tag; Predicted MWt 68.90 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	389 amino acids
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 Weight	68.900kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRL AHREQVALYVDLDDV AEDDPELVDSICENARRYAKLFADA VQELLQPQKEREVVNKDVLVDVYIEHRLMMEQ RSRDPGMVR SPQNNQYPAELMRRFELYFQGPSSSKPRVIREVRADSVGKL VTVRGI VTRVSEVKPKMVVATYTCDQCGAETYQPIQSPTF MPLIMCPSQECQTNRSGGRLYL QTRGSRFIKFQEMKMQEHS DQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPI LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDDESGAGELT REELRQIADVIFATVRE LVSGGRSVRFSEAEQRCVSRGFT PAQFQAALDEYEELNVWQVNASRTRITFV
Sequence Similarities	Belongs to the MCM family.Contains 1 MCM domain.

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;
Gene ID	4176
mRNA Refseq	NM_005916

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Protein Refseq	NP_005907
MIM	600592
Uniprot ID	P33993
Chromosome Location	7q21.3-q22.1
Pathway	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 Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	ATP binding; contributes_to ATP-dependent DNA helicase activity; contributes_to DNA binding; hydrolase activity; nucleotide binding;

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