

Recombinant Full Length Human MCM7 Protein

Cat. No. MCM7-300HF **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	In Vitro Cell Free System
ProteinLength	389 amino acids
Description	<p>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.</p>
Form	Liquid
Molecular Mass	68.900kDa inclusive of tags
AA Sequence	MALKDYALEKEKVKKFLQEFYQDDELGKKQFKYGNQLVRL AHREQVALYVDLDDV

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AEDDPELVDSICENARRYAKLFADA VQELLPQYKEREVVNKDVLVDVYIEHRLMMEQ
 RSRDPGMVR SPQNNQYPAELMRRFELYFQGPSSSKPRVIREVRADSVGKL VTVRGI
 VTRVSEVKPKMVVATYTCDCGAETYQPIQSPTF MPLIMCPSQECQTNRSGGRLYL
 QTRGSRFIKFQEMKMQEH SDQVPVGNIPRSITVLVEGENTRIAQPGDHVSVTGIFLPI
 LRTGFRQVVQGLLSETYLEAHRIVKMNKSEDDESGAGELT REELRQIADVIFATVRE
 LVSGGRSVRFSEAEQRCVSRGFT PAQFQAALDEYEELNVWQVNASRTRITFV

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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](#)

Protein Refseq [NP_005907](#)

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MIM	600592
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UniProt ID	P33993
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