

Recombinant Human MCM4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MCM4-1876H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MCM4 MS Standard C13 and N15-labeled recombinant protein (NP_877423) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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 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, 6 and 7 proteins possesses DNA helicase activity, and may act as a DNA unwinding enzyme. The phosphorylation of this protein by CDC2 kinase reduces the DNA helicase activity and chromatin binding of the MCM complex. This gene is mapped to a region on the chromosome 8 head-to-head next to the PRKDC/DNA-PK, a DNA-activated protein kinase involved in the repair of DNA double-strand breaks. Alternatively spliced transcript variants encoding the same protein have been reported.
Molecular Mass	96.6 kDa
AA Sequence	MSSPASTPSRRGSRGRATPAQTPRSEDARSSPSQRRRGEDSTSTGELQPMPTSP

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GVDLQSPAAQDVLFSSPPQMHSSAIPDFDVSSPLTYGTPSSRVEGTPRSGVRGTP
VRQRPDLGSAQKGLQVDLQSDGAAAEDIVASEQSLGQKLVIWGTVDNVAACKENF
QRFLQRFIDPLAKEEENVGIDITEPLYMQRLGEINVIGEPFLNVNCEHIKSFDKNLYRQ
LISYPQEVITFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKNMRNLNPEDIDQLITI
SGMVIRTSQLIPEMQEAFFQCQVCAHTTRVEMDRGRIAEP SVCGRCHTTHSMALIH
NRSFLSDKQMIKLQESPEDMPAGQTPHTVILFAHNDLVDKVQPGDRVNVTGIYRAVP
IRVNPRVSNVKSVMYKTHIDVIHYRKTDAKRLHGLDEEAEQKLFSEKRVELLKELSRKP
DIYERLASALAPSIYEHEDIKKGILLQLFGGTRKDFSHTGRGKFRAEINILLCGDPGTS
KSQLLQYVYNLVPRGQYTSGKGSSAVGLTAYVMKDPETRQLVLQTGALVLSDNIGIC
CIDEFDKMNESTRSVLHEVMEQQTLSIAKAGIICQLNARTSVLAAANPIESQWNPCKT
TIENIQLPHTLLSRFDLIFLMLDPQDEAYDRRLAHLVALYYQSEEQAEELLDMAVL
KDYIAYAHSTIMPRLSEEASQALIEAYVDMRKIGSSRGMVSAYPRQLESLIRLAEAHA
KVRLSNKVEAIDVEEAKRLHREALKQSATDPRTGIVDISILTTGMSATSRKRKEELAE
ALKKLILSKGKTPALKYQQLFEDIRGQSDIAITKDMFEEALRALADDDFLTVTGKTVRL
LTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MCM4 minichromosome maintenance complex component 4 [Homo sapiens

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	(human)]
Official Symbol	MCM4
Synonyms	MCM4; minichromosome maintenance complex component 4; CDC21, MCM4 minichromosome maintenance deficient 4 (<i>S. cerevisiae</i>); DNA replication licensing factor MCM4; CDC54; hCdc21; MGC33310; P1 Cdc21; CDC21 homolog; minichromosome maintenance deficient 4; homolog of <i>S. pombe</i> cell division cycle 21; MCM4 minichromosome maintenance deficient 4; CDC21; P1-CDC21;
Gene ID	4173
mRNA Refseq	NM_182746
Protein Refseq	NP_877423
MIM	602638
UniProt ID	P33991
SDS-PAGE	