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**Product Data Sheet**


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Product Name: MCM7 Human  
 Cat. No.: GP23901  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Minichromosome Maintenance Complex Component 7; MCM7 Minichromosome Maintenance Deficient 7 (S. Cerevisiae); Minichromosome Maintenance Deficient (S. Cerevisiae) 7; DNA Replication Licensing Factor MCM7; Homolog of S. Cerevisiae Cdc47; CDC47 Homolog; P1CDC47; PNAS146; P85MCM; MCM2; CDC47; P1.1- MCM3; EC 3.6.4.12.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMVVATYT CDQCGAETYQ PIQSPTFMPL IMCPSQECQT NRS GGRLYLQ TRGSRFIKFQ EMKMQEHS DQ VPVGNIPRSI TVLVEGENTR IAQPGDHVSV TGIFLPILRT GFRQVVQGLL SETYLEAHRI VKM NKSEDE SGAGELTREE LRQIAEEDFY EKLAASIAPE IYGHEDVKKA LLLLLVGGVD QSPRGMKIRG NINICLMGDP GVAKSQLLSY IDRLAPRSQY TTGRGSSGVG LTAAVLRDSV SGELTLEGGA LVLADQGVCC IDEFDKMAEA DRTAIHEVME QQTISI AKAG ILTTLNARCS ILAAANPAYG RYNPRRSLEQ NIQLPAALLS RFDLLWLIQD RPDRDNDLRL AQHITYVHQH SRQPPSQFEP LDMKLMRRI AMCREKQPMV PESLADYITA AYVEMRR		
Formulation	The MCM7 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

**Introduction**

MCM7 is a highly conserved mini-chromosome maintenance protein (MCM) vital for eukaryotic genome replication initiation. The MCM proteins form a hexameric protein complex which is a key component of the pre-replication complex (pre-RC) which takes part in replication forks formation and in DNA replication related proteins recruitment. The MCM complex is comprised of MCM2, 4, 6 and 7 proteins and possesses DNA helicase activity, such as DNA unwinding.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

MCM7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 437 amino acids (1-414) and having a molecular mass of 48.6 kDa. MCM7 is fused to a 23 amino acid His-tag at N-terminus.

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