

Product datasheet for **AR51344PU-S**

MCM7 (1-414, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	MCM7 (1-414, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMVATYT CDQCGAETYQ PIQSPTFMPL IMCPSQECQT NRSGGRLYLQ TRGSRFIKQ EMKMQEHSQ VPVGNIPRSI TVLVEGENTR IAQPGDHVSV TGIFLPILRT GFRQVQGLL SETYLEAHRI VKMKNKSEDE SGAGELTREE LRQIAEEDFY EKLAASIAPE YGHEDVKA LLLLLVGGVD QSPRGMKIRG NINICLMGDP GVAKSQLLSY IDRLAPRSQY TTGRGSSGVG LTAAVLRDSV SGELTLEGA LVLADQGVCC IDEFDKMAEA DRTAIHEVME QQTISIAKAG ILTTLNARCS ILAAANPAYG RYNPRRSLEQ NIQLPAALLS RFDLLWLIQD RPDRDNDLRL AQHITYVHQH SRQPPSQFEP LDMKLMRRYI AMCREKQPMV PESLADYITA AYVEMRR
Tag:	His-tag
Predicted MW:	48.6 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human MCM7 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001265524
Locus ID:	4176
UniProt ID:	P33993 , C6EMX8
Cytogenetics:	7q22.1
Synonyms:	CDC47; MCM2; P1.1-MCM3; P1CDC47; P85MCM; PNAS146; PPP1R104



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Summary:

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. [provided by RefSeq, Jul 2008]

Protein Families:

Transcription Factors

Protein Pathways:

Cell cycle, DNA replication

Product images: