

Recombinant human MCM7 protein

Catalog Number: ATGP2524

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-414aa

UniProt No.

P33993

NCBI Accession No.

NP_877577

Alternative Names

DNA replication licensing factor MCM7 isoform 2, CDC47, MCM2, P1.1-MCM3, P1CDC47, P85MCM, PNAS146

PRODUCT SPECIFICATION

Molecular Weight

48.6 kDa (437aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

MCM7 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

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with the tumorsuppressor protein RB1/RB. Recombinant human MCM7 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

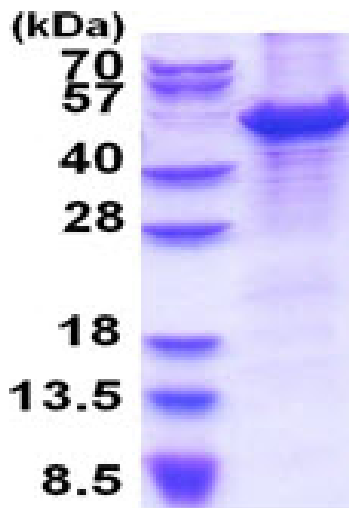
MGSSHHHHHH SGLVPRGSH MGSMVVATYT CDQCGAETYQ PIQSPTFMPL IMCPSQECQT NRSGGRLYLQ TRGSRFIKFO
EMKMQEHSdq VPGNIPRSI TVLVEGENTR IAQPGDHVSV TGIFLPILRT GFRQVVQGLL SETYLEAHRI VKMKNKSEDE
SGAGELTREE LRQIAEEDFY EKLAASIAPE IYGHEDVKKA LLLLLVGGVD QSPRGMKIRG NINICLMGDP GVAKSQLLSY
IDRLAPRSQY TTGRGSSGVG LTAAVLRDSV SGELTLEGGA LVLADQGVCC IDEFDKMAEA DRTAIHEVME QQTISIAKAG
ILTTLNARCS ILAAANPAYG RYNPRRSLEQ NIQLPAALLS RFDLLWLIQD RPDRDNDLRL AQHITYVHQH SRQPPSQFEP
LDMKLMRRYI AMCREKQPMV PESLADYITA AYVEMRR

General References

Zhou, Y.M., et al. (2012) *Liver Int.* 32 (10), 1505-1509
Liu, Y.Z., et al. (2012) *Lung Cancer* 77 (1), 176-182

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)