

Datasheet for ABIN7554505
MCM6 Protein (AA 1-821) (His tag)



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Overview

Quantity:	1 mg
Target:	MCM6
Protein Characteristics:	AA 1-821
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCM6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MCM6 Protein expressed in mammalian cells.
Sequence:	MDLAAAAEPG AGSQHLEVRD EVAEKQKLF LDFLEEFQSS DGEIKYLQLA EELIRPERNT LVVSFVDLEQ FNQQLSTTIQ EEFYRVYPYL CRALKTFVKD RKEIPLAKDF YVAFQDLPTR HKIRELTSSR IGLLTRISGQ VVRTHPVHPE LVSGTFLCLD CQTVIRDVEQ QFKYTPNIC RNPVCANRRR FLLDTNKSFR VDFQKVRIQE TQAEPRGSI PRSLEVLIRA EAVESAQAGD KCDFTGTLIV VPDVSKLSTP GARAETNSRV SGVDGYETEG IRGLRALGVR DLSYRLVFLA CCVAPTNPFR GGKELRDEEQ TAESIKNQMT VKEWEKVFEM SQDKNLVHNL CTSLFPTIHG NDEVKRGVLL MLFGGVPKTT GEGTSLRGDI NVCIVGDPST AKSQFLKHVE EFSPRAVYTS GKASSAAGLT AAVRDEESH EFVIEAGALM LADNGVCCID EFDKMDVRDQ VAIHEAMEEQ TISITKAGVK ATLNARTSIL AAANPISGHY DRKSLKQNI NLSAPIMSRF DLFFILVDEC NEVTDYAIAR RIVDLHSRIE ESIDRVYSLD DIRRYLLFAR QFKPKISKES EDFIVEQYKH LRQRDGGSGVT KSSWRITVRQ LESMIRLSEA MARMHCCDEV QPKHVKEAFR LLNKSIIIRVE

Product Details

TPDVNLDQEE EIQMEVDEGA GGINGHADSP APVNGINGYN EDINQESAPK ASLRLGFSEY
CRISNLIVLH LRKVEEEDE SALKRSELVN WYLKEIESEI DSEEELINKK RIEKVIHRL THYDHLIEL
TQAGLKGSTE GSESYEEDPY LVVNPNYLLE D **Sequence without tag. The proposed
Purification-Tag is based on experiences with the expression system, a different complexity
of the protein could make another tag necessary. In case you have a special request, please
contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

MCM6

Alternative Name:

MCM6 ([MCM6 Products](#))

Background:

DNA replication licensing factor MCM6 (EC 3.6.4.12) (p105MCM),FUNCTION: Acts as a component of the MCM2-7 complex (MCM complex) which is the replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. Core component of CDC45-MCM-GINS (CMG) helicase, the molecular machine that unwinds template DNA during replication, and around which the replisome is built (PubMed:32453425, PubMed:34694004, PubMed:34700328, PubMed:35585232, PubMed:16899510, PubMed:9305914). The active ATPase sites in the MCM2-7 ring are formed through the

Target Details

interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity (PubMed:32453425). {ECO:0000269|PubMed:16899510, ECO:0000269|PubMed:32453425, ECO:0000269|PubMed:34694004, ECO:0000269|PubMed:34700328, ECO:0000269|PubMed:35585232, ECO:0000269|PubMed:9305914}.

Molecular Weight: 92.9 kDa

UniProt: [Q14566](#)

Pathways: [DNA Damage Repair](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months