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Datasheet for ABIN3134681 MCM2 Protein (AA 2-904) (His tag)

I Image



Overview

Quantity:	1 mg
Target:	MCM2
Protein Characteristics:	AA 2-904
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCM2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	AESSESLSAS SPARQRRRIS DPLTSSPGRS SRRADALTSS PGRDLPPFED ESEGLLGTEG
	PMEEEEDGEE LIGDGMERDY RPIPELDVYE AEGLALDDED VEELTASQRE AAERTMRQRD
	REAGRGLGRM RRGLLYDSSE EDEERPARKR RHVERATEDG EEDEEMIESI ENLEDLKGHS
	VREWVSMAGP RLEIHHRFKN FLRTHVDSHG HNVFKERISD MCKENRESLV VNYEDLAARE
	HVLAYFLPEA PAELLQIFDE AALEVVLAMY PKYDRITNHI HVRISHLPLV EELRSLRQLH
	LNQLIRTSGV VTSCTGVLPQ LSMVKYNCSK CNFVLGPFCQ SQNQEVKPGS CPECQSAGPF
	EINMEETIYQ NYQRIRIQES PGKVAAGRLP RSKDAILLAD LVDSCKPGDE IELTGIYHNN
	YDGSLNTANG FPVFATIILA NHVAKKDNKV AVGELTDEDV KMITGLSKDQ QIGEKIFASI
	APSIYGHEDI KRGLALALFG GEPKNPGGKH KVRGDINVLL CGDPGTAKSQ FLKYIEKVSS
	RAIFTTGQGA SAVGLTAYVQ RHPVSREWTL EAGALVLADR GVCLIDEFDK MNDQDRTSIH
	EAMEQQSISI SKAGIVTSLQ ARCTVIAAAN PIGGRYDPSL TFSENVDLTE PIISRFDVLC
	VVRDTVDPVQ DEMLARFVVG SHVRHHPSNK KDEGLTNGGT LEPAMPNTYG VEPLPQEVLK

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IRDYVMEDDV NMARVMMES FIDTOKFSVM RSMRKTFARY LSFRRDNNDL LLFILKQLVA EQVTYQRNRF GAQQD TEIP EKDLMDKARQ INTENLSAFY DSDLFKFNKF SRDLKRKLL QQF Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. Characteristics • Made in Germany - from design to production - by highly experienced protein experts. • Mouse Mcm2 Protein (raised in Insect Cells) purified by multi-step, protein specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded protein. 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. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experiments appedial reference buffer. The concentration of our recombinant proteins is measured using the absorbance at 280m. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell yeste using three different His tag capture materials: high yield, EDTA resistant		KYIIYAKERV RPKLNQMDQD KVARMYSDLR KESMATGSIP ITVRHIESMI RMAEAHARMH
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		through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
Sterility: 0.22 µm filtered	Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
	Sterility:	0.22 µm filtered

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Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

-		
Target:	MCM2	
Alternative Name:	Mcm2 (MCM2 Products)	
Background:	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the 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. Required for the entry in S phase and for cell division.	
Molecular Weight:	102.9 kDa Including tag.	
UniProt:	P97310	
Pathways:	DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication, Chromatin Binding, 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 gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

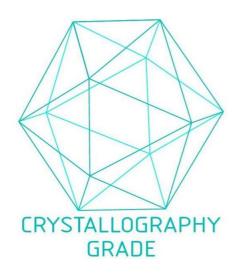


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process