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MCM6 Protein (AA 1-821) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	MCM6
Protein Characteristics:	AA 1-821
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCM6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MDLAAAAEPG AGSQHPEVRD EVAEKCQKLF LDFLEEFQGS DGEIKYLQFA EELIRPERNT
LVVSFADLEQ FNQQLSTTIQ EEFYRVYPYL CRALKTFVKD RKEIPFAKDF YVAFQDLPTR
HKIRELTSSR IGLLTRISGQ VVRTHPVHPE LVSGTFLCLD CQTVIKDVEQ QFKYTQPNIC
RNPVCANRKR FLLDTNKSRF VDFQKVRIQE TQAELPRGSI PRSLEVILRA EAVESAQAGD
RCDFTGALIV VPDVSKLSTP GARAETNSRV SGADGYETEG IRGLRALGVR DLSYRLVFLA
CHVAPTNPRF GGKELRDEEQ TAESIKNQMT VKEWEKVFEM SQDKNLYHNL CTSLFPTIHG
NDEVKRGVLL MLFGGVPKTT GEGTSLRGDI NVCIVGDPST AKSQFLKHVD EFSPRAVYTS
GKASSAAGLT AAVVRDEESH EFVIEAGALM LADNGVCCID EFDKMDMRDQ VAIHEAMEQQ
TISITKAGVK ATLNARTSIL AAANPVSGHY DRSKSLKQNI NLSAPIMSRF DLFFILVDEC
NEVTDYAIAR RIVDLHSRIE ESIDRVYSLD DIRRYLLFAR QFKPKISKES EDFIVEQYKR
LRQRDGSGVT KSSWRITVRQ LESMIRLSES MARMHCCDEV QPKHVKEAFR LLNKSIIRVE
TPDVNLDQEE EIQMETDEGQ GGVNGHADSP APVNRFNGSS EDASQETVSK PSLRLGFAEY

CRISNLIVLH LRKMEEEEDE SALKRSELVN WYLKEIESEI DSEEELINKK TIIEKVVHRL THYDHVLIEL TQAGLKGSSE GSESYEEDPY LVVNPNYLLE D

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Target Details	
Target:	MCM6
Alternative Name:	Mcm6 (MCM6 Products)
Background:	DNA replication licensing factor MCM6 (EC 3.6.4.12) (Mis5 homolog),FUNCTION: Acts as a
	component of the MCM2-7 complex (MCM complex) which is the replicative helicase essentia
	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. 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.
	{ECO:0000269 PubMed:10567526}.
Molecular Weight:	92.9 kDa
UniProt:	P97311
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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)