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Datasheet for ABIN3137042

SYCP2 Protein (AA 1-1500) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	SYCP2
Protein Characteristics:	AA 1-1500
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYCP2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MPVRPDLQQL EKCIDDALRK NDFKPLLALL QIDICEDVKI KCSKQFLRKL DDLICRELNK
KDIQTVSSIL ISIGRCSKNI FILGQAGLQT MIKQGLVQKM VSWFENSKEI ILNQQQSKDE
AVMNMIEDLF DLLMVIYDIS DEGKNQVLES FIPQICALVI DSRVNFCIQQ EALKKMNLMML
DRIPQDANKI LSNQEMLTLM SNMGERILDV GDYELQVGIV EALCRMTEK RRQELAYEWF
SMDFIANAFK EIKDCEFETD CRIFLNLVNG ILGDKRRVYT FPCLSAFLGK YELQIPSDEK
LEEFWIDFNL GSHTLSFYIA GDEEDHQWEA VTVPEEKVQM YNIEVRESKK LLTLTKNIV
KISKKEGKEL LFYFDESLEI TNVTKKVFGG NKYKEFTRKQ GISVAKTSIH VLFDASGSQI
LVPESQPSPV KENLIHLKEK SDIQKLVNP LELGNSSSQD EITTPSRKKM SEASMIVPDT
DRYTVRSPIL LINTSTPRRS REPLQAINSV EKAIVKTSSES GMDYAASPKS RQSDGRKRWN
NRANHNKTTA VIQNKQYEDN ESPDQNFNEI EDTLSNVSSA VGKVDKPVLP GVLDISKNTT
HSRWACWTPV TTIKLCNNQR SRALPGDTCT QDTGVNKKCT KQKSVSDDDS EETQKGGKYSK
DVIKCNKSDE AEFCEIRNIQE QNHPKYSQKK NTANAKKSDW HIESETTYKS VLLNKTTEES

LIYKKTCVLS KDVNTTICDK SPSRKSKRNH TKSRKELMSE LTSCLEEIP VRENSKGKRF
TGASESLINQ ISRRYNPSDS MMSTRKLKEP QDGSFGSKKP DLQFNKVQRK SYRKLKATVV
NVTSECPLDD VYNFSLNGAD EPVIKLGIQE FQATTREASM DNSLKLKLVKNH DEHDPFLKTK
DKRMLSYEKK TLLSDTETEC GCDDSKTDIS WLKEPKTKRL MDYSRNKNTT KYKSRKSRSS
MEKGQPRPTM VLNKNSMKND YEVVVDGRTR LPRRATKTKK NYKDLSTSES ESESEKECSY
LFKDKLPTKE ETIHSRAQTK KLPEKQQKVF NSEALKGQPS EEQKNSSRLR EGREDSLCLS
SASVSRSSSS VEVMRCTEKI TERDFTQDYD YITKSLSPYP KAPSPEFLNG NNSVVGRGQS
PRISETSAMC VRKSYSPASG PPFSPRHTPT KNNSVVMKK ANSVINNQRT QHCNSYSQVS
SNSSEKLYME PESPECDNH MQNKREGNHA ASPLSLSEK IEKMWFDMPS ENTHVSGPSQ
RGSKRMYLE DDELSNSNEA EVEEAEREH LLSKKRCQWE NSDQHTFKTS LSTPDFSVPK
DWQQELQGAG MFYDNISDY KRKTDSQHKI MDDFTTKTLK LTQQHLMAMT SQAQGRDEN
VEKFQVTLLE ELEKVEKDSQ TLRDLEKELV DIEEKLQKM RAYHRCERER FRVLKTSLDK
SFLVYNSVYE ESFTSEMCL MKANMKMLQD KLLKEMHEEE VLNIRRGLOS LFKAHEGNDA

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 Sycp2 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 receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use

Product Details

the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. 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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SYCP2
Alternative Name:	Sycp2 (SYCP2 Products)
Background:	Major component of the axial/lateral elements of synaptonemal complexes (SCS) during meiotic prophase. Plays a role in the assembly of synaptonemal complexes (PubMed:16717126). Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility (PubMed:16717126). Required for insertion of SYCP3 into synaptonemal complexes (PubMed:16717126). May be involved in the organization of chromatin by temporarily binding to DNA scaffold attachment regions. Requires SYCP3, but not SYCP1, in order to be incorporated into the axial/lateral elements. {ECO:0000269 PubMed:11463847, ECO:0000269 PubMed:16717126}.
Molecular Weight:	173.1 kDa Including tag.
UniProt:	Q9CUU3
Pathways:	M Phase

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.
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Application Details

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.

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