

Datasheet for ABIN3135525

SYCP1 Protein (AA 1-993) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SYCP1
Protein Characteristics:	AA 1-993
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYCP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MEKQKPFTLF VPPRLSSSQV SAVKPQTAGG DSNYFKTANK CTEGDFGVPF TMSSRENIDK</p> <p>DPAFQKLSIL PMLEQVANS SCHYQEGVND SDFENSEPMS RLYSKLYKEA EKIKKWKVSI</p> <p>ESELKQKENK LQENRKII EA QRKAIQELQF ENEKVS LKLE EEIQENKDLI KENNATIHWC</p> <p>NLLKETCARS AEKTNKYEYE REETRQVYVD LNSNIEKMIL AFEELRVQAE NARLEMHFKL</p> <p>KEDHEKIQHL EEEYQKEVNN KENQVSELLI QSAEKENKMK DLTFLL EESR DKANQLEEK</p> <p>KLQDENLDEL SEKKDHLTSE LEDIKMSMQR SMSTQKALEE DLQIATKTIS QLTEVKEAQM</p> <p>EELNKA KTTH SFVVT ELKAT TCTLEELLRT EQQRLEKNED QLKLTVELQ KKSNELEEMT</p> <p>KFKNNKEVEL EELKNILAED QKLLDEKKQV EKLAEE LQEK EQELTF LLET REKEVHDLQE</p> <p>QVTVTKTSEQ HYLKQVEEMK TELEKEKLKN TELTASCDML LLENKKFVQE ASDMALELKK</p> <p>HQEDIINCKK QEERLLKQIE NLEEKEMHLR DELESVRKEF IQQGDEVKCK LDKSEENARS</p> <p>IECEVLKKEK QMKILESKCN NLKKQVENKS KNIEELHQEN KTLKKKSSAE IKQLNAYEIK</p>

VSKLELELES TKQRFEEMTN NYQKEIENKK ISEGKLLGEV EKAKATVDEA VKLQKEIDLR
CQHKIAEMVA LMEKHKHQYD KIVEERDSEL GLYKNREQE QSSAKIALETE LSNIRNELVS
LKKQLEIEKE EKEKLKMAKE NTAILKDKKD KKIQASLLES PEATSWKFDS KTTSPQNISR
LSSSMSGKS KDNRDNLRS AKSILPTTVT KEYTVKTPTK KSIYQRENKY IPTGGSNKKR
KTAFEDVNS DSSETADLLS LVSEEDVSNR LYDNNPPDSH LLVKTPKQTP LSLSTPASFM
KFGSLKKMRE DRWTTIAKID RKRLKEAEK LFS

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.

Product Details

- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: SYCP1

Alternative Name: Sycp1 ([SYCP1 Products](#))

Background: Synaptonemal complex protein 1 (SCP-1),FUNCTION: Major component of the transverse filaments of synaptonemal complexes, formed between homologous chromosomes during meiotic prophase (PubMed:16717126). Required for normal assembly of the central element of the synaptonemal complexes (PubMed:15937223). Required for normal centromere pairing during meiosis (PubMed:22761579). Required for normal meiotic chromosome synapsis during oocyte and spermatocyte development and for normal male and female fertility (PubMed:15937223). {ECO:0000269|PubMed:15937223, ECO:0000269|PubMed:16717126, ECO:0000269|PubMed:22761579}.

Molecular Weight: 115.9 kDa

UniProt: [Q62209](#)

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

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months