antibodies .- online.com





SPAG8 Protein (AA 1-470) (Strep Tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	SPAG8
Protein Characteristics:	AA 1-470
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPAG8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

METTESTEGS LSRSCDVQPS SERLDTPSEP VPSSSSSPRS TAPAEAPAQY SVLTEPSSDS LYGAPCPPAH HRGHGFGFQP FYVSCIPQDP CNMADLSSRA DPTSSYPCHS SVHGSGSGTC GLGQSSEPSQ GSGPTSGPAP ASVPSLVSGP DSASGPDSSA SGPALASGPG PADPGQGPKF STCIPQGYRC IPVDLAPDYN AWCQHLHWKP QRSWEPLQVS EPGVRGPYKP PEPGALGPCE PCEPCEPPEA ESEETLCKAR PRGQCLLYNW EEERATNQLD QIPPLQDGSE SYFFRHGHQG LLTTQPQSPM SSSTTQRDSY QLPRHICQPL RGKREAMLEM LLRHQICKEV QAEQEPARKL FETESVTHHD YRVELVRAAP PASTKPHDYR QEQPETFWIQ RAARLPGVSD IRTLDTPFRK NCSFSTPVPL SLGQPLPYEL ESGPHQVGVI SSLACQGGGQ GCGRTKTTPI

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.

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.

Product Details ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Grade: Crystallography grade **Target Details** SPAG8 Target: Alternative Name: Spag8 (SPAG8 Products) Sperm-associated antigen 8 (Sperm membrane protein 1) (SMP-1) (Sperm membrane protein Background: BS-84), FUNCTION: Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (By similarity). Plays a role in spermatogenesis by enhancing the binding of CREM isoform tau to its coactivator FHL5 and increasing the FHL5-regulated transcriptional activation of CREM isoform tau (PubMed:20488182). Involved in the acrosome reaction and in binding of sperm to the zona pellucida (PubMed:17187156). Plays a role in regulation of the cell cycle by controlling progression through the G2/M phase, possibly by delaying the activation of CDK1 which is required for entry into mitosis (By similarity). May play a role in fertility and microtubule formation through interaction with RANBP9 (By similarity). {ECO:0000250|UniProtKB:Q99932, ECO:0000269|PubMed:17187156, ECO:0000269|PubMed:20488182}. Molecular Weight: 50.5 kDa UniProt: Q3V0Q6 **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 Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

modifications.

even the most difficult-to-express proteins, including those that require post-translational

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

Application Details

components needed for protein production (amino acids, cofactors, etc.) a	re added to produce
something that functions like a cell, but without the constraints of a living s	system - all that's
needed is the DNA that codes for the desired protein!	
For Research Use only	

Handling

Restrictions:

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)

Images



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