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SGOL2 Protein (AA 1-1164) (Strep Tag)



Overview

Quantity:	1 mg
Target:	SGOL2
Protein Characteristics:	AA 1-1164
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGOL2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MEYPGIKVDT VTSGIQRRVK GRIAKTNLNV SLASKIKAKI LNNSSIFKIS LKHNNRALAR
ALSKEKENSR RITTEKMQLQ KEVEKLNFEN TFLRLKLNTL NKKLVEIESH VSNDLLTAIE
ISSLSEFHQG SFLLSATKKQ RNSKQCKPAH LPYARVLLTS ENDDDDGADD KWQTKCNNRT
ISKTSPDSTS SVSRQPSSLH QCNLKAFPPK EDNQKTCGSG HLEHTSSVDI LPNESHSDQS
PKSSLSEMKT APSPSLRREK LSHGNVTMRK KCVSSTPDIL YVTDLDHQPT SSPGSNWNNE
IHGHTNETSN NTQRNAECFL DLPSESSSEP DAKRMELVQK NTDSFHFQKT VYDAADMELT
ATDIGKIVAV SKSKKNQNKK KADCRKETFR KVKGASSDKK RESSKRECKD GSEVGAEEEA
DAARAERGAG VLDGRGDSEE PNCISSTEQP SQVNTQKKRT LQNSSDQENI QNTKRRQTYT
TDEQEETNPF SRHSVKFLQD GKFDLCQKTL HHNLSKPSRQ TFVIRKSEKD NLFPNQEDKD
TISENLEVTN EFHIDDLSIE ANENVCDHET QTMLDLKKSV SAQQNQTKIN KTKQKINRRT
KIISVMSQVY EDNDKDIHVL EKDNFPFHTQ ANKETTSGNL ESSKEFESPL LFTRDNGSLR
DCKTQNVLDL HKQIPDLYPD RNESQISKIP RQKVNRKTEV ISGVKCFSND QGVHCSEKDK

SLLLQKDKDF PGTLKDLSEF DTPAFCNKDS AKSCDYKSEM LLGLKKHDPN MQPACQDDSK
AGKKLRQKVN RKTEIISKIT QIHENDRGST HDSLNKKLCQ KVNISKIISQ MNQIYETINE
DGNGFKSSIK DCEDIKSCDF GEINSNKKEN YDPIQDPCTL VKKTKRKGSC KAGSSLAGAK
NRCGLQLTDS SQVQSVPLDS GLRHHPNEAD SGPGEQTNLP KMQKQSAGRS LGDAFSVSLG
KEGSRPAKAV SKMTPKSKKR KLPLGCSPET HGTVEITPNT DLAKAVDSQQ TEKENYLEKE
KIAKRKPDFC TKVLKPLSET CSSNIKNSSL DSMCKSSLPL SISSRKTLML EESSSLESTC
IFQVGDAAHE KITTGTRNPH HRTQKSTPGS RTSLVLVDTS SVSDTNPANP ENESEGQSSH
PMRRKROCVP LNLTEPSLRS KMRR

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.
- 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:

≥ 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:	SGOL2
Alternative Name:	Sgo2 (SGOL2 Products)
Background:	Shugoshin 2 (Shugoshin-2) (Shugoshin-like 2),FUNCTION: Cooperates with PPP2CA to protect
	centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I. Has a crucial role in protecting REC8 at centromeres from cleavage by separase. During
	meiosis, protects centromeric cohesion complexes until metaphase II/anaphase II transition,
	preventing premature release of meiosis-specific REC8 cohesin complexes from anaphase I
	centromeres. Is thus essential for an accurate gametogenesis. May act by targeting PPP2CA to
	centromeres, thus leading to cohesin dephosphorylation. Essential for recruiting KIF2C to the
	inner centromere and for correcting defective kinetochore attachments. Involved in centromeric
	enrichment of AUKRB in prometaphase. {ECO:0000250 UniProtKB:Q562F6,
	ECO:0000269 PubMed:18084284, ECO:0000269 PubMed:18765791}.
Molecular Weight:	130.3 kDa
UniProt:	Q7TSY8

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 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)