

Datasheet for ABIN7564220
SGOL2 Protein (AA 1-1164) (His tag)



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Overview

Quantity:	1 mg
Target:	SGOL2
Protein Characteristics:	AA 1-1164
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGOL2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Sgo2 Protein expressed in mammalian cells.
Sequence:	MEYPGIKVDT VTSGIQRVK GRIAKTNLNV SLASKIKAKI LNSSIFKIS LKHNNRALAR ALSKEKENS RITTEKMLQ KEVEKLN FEN TFLRLKLNTL NKKLVEIESH VSNLLTAIE ISSLSEFHQG SFLLSATKKQ RNSKQCKPAH LPYARVLLTS ENDDDDGADD KWQTKCNRRT ISKTSPDSTS SVSRQPSSLH QCNLKAFPPK EDNQKTCGSG HLEHTSSVDI LPNESHSDQS PKSSLSEMKT APSPSLRREK LSHGNVTMRK KCVSSTPDIL YVTDLDHQPT SSPGSNWNNE IHGHTNETSN NTQRNAECFL DLPSESSSEP DAKRMELVQK NTDSFHFQKT VYDAADMELT ATDIGKIVAV SKSKKNQNK KADCRKETFR KVKGASSDKK RESSKRECKD GSEVGAEAAA DAARAERGAG VLDGRGDSEE PNCISSTEQP SQVNTQKKRT LQNSSDQENI QNTKRRQTYT TDEQEETNPF SRHSVKFLQD GKFDLCQKTL HHNLSKPSRQ TFVIRKSEKD NLFNPQEDKD TISENLEVTN EFHIDDLSIE ANENVCDHET QTMLDLKKS SVSAQQNQTKIN KTKQKINRRT KIISVMSQVY EDNDKDIHVL EKDNFPFHTQ ANKETTSGNL ESSKEFESPL LFTRDNGSLR DCKTQNVLDL HKQIPDLYPD RNESQISKIP RQKVNRKTEV ISGVKCFNSD QGVHCSEKDK

Product Details

SLLLQKDKDF PGLTKDLSEF DTPAFCNKDS AKSCDYKSEM LLGLKKHDPN MQPACQDDSK
AGKKLRQKVN RKTEIISKIT QIHENDRGST HDNLNKKLCQ KVNISKIISQ MNQIYETINE
DGNGFKSSIK DCEDIKSCDF GEINSNKKEN YDPIQDPCTL VKKTKRKGSC KAGSSLAGAK
NRCGLQLTDS SQVQSVPLDS GLRHHHPNEAD SGPGEQTNLP KMQKQSAGRS LGDAFSVSLG
KEGSRPAKAV SKMTPKSKKR KLPLGCPET HGTVEITPNT DLAKAVDSQQ TEKENYLEKE
KIAKRKPDFC TKVLKPLSET CSSNIKNSSL DSMCKSSLPL SISSRKTMLL EESSSLESTC
IFQVGDA AHE KITTGTRNPH HRTQKSTPGS RTSLVLVDTS SVSDTNPANP ENESEGQSSH
PMRRKRQCVP LNLTEPSLRS KMRR **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: SGOL2

Alternative Name: Sgo2 ([SGOL2 Products](#))

Background: Shugoshin 2 (Shugoshin-2) (Shugoshin-like 2),FUNCTION: Cooperates with PPP2CA to protect

Target Details

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: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months