Shugoshin-Like 1 (SGOL1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Shugoshin-like 1 (Sgol1), Recombinant Protein
Full Product Name	Recombinant Mouse Shugoshin-like 1 (Sgol1)
Product Gene Name	Sgol1 recombinant protein
Product Synonym Gene Name	Sgol1
Sequence	MAKERCQKRS FQDTLEDIKN RMKEKRNKNL AGIGKRKSFI VAPGQVPTNT ATLLRYYQDN NRLLVLALEN EKSKVREAQD VILQLRKECY YLTCQLYALK EKLTSRQSEE TTQNWKGRPS DVVSSIDNTT RDLSGKSLQQ IAVEETDCPY QTTEPSPAVT PETQGCDFDS GKVESTDEVL PRTISIRRHL RKDFSNISHS TTLEDCKASP RVAQSLEVKG SRCREVTVTL HRLENVCLWN KDQISLCSRL INPAKITETE VILSSKPEQI ESKHKRARKR RAEQRRTKQR CKSKSSLRSK GNKNKDKQGL PPTTLDGGIG SCDAYDFNLK GTVHPTPFRQ KMNNGCNKET DSSNSEVSDL ECSTSEDESD DLYLPPSKRL RDYRESERAV TRPRSKRGLQ YPDGKERKEV LPSTAPTGIP PETQESPRCS LKDVTNILQC PRVKIRKPSL PPKRREDSPA VALTKRRCST IKSYKEPTLA SKLRRGDPFT DLCFLNSPIF KQKRGMRCPK RRTKQTQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	19,672 Da
Sequence Positions	1-517, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9CXH7
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Sgol1 recombinant protein	MBS1306873 is a recombinant protein targeting Sgol1. Also known as Recombinant Mouse Shugoshin-like 1 (Sgol1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Sgol1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sgol1. It may not necessarily be applicable to this product.

NCBI GI #	13386294
NCBI GeneID	72415
NCBI Accession #	NP_082508.1

UniProt Primary Accession #	Q9CXH7
UniProt Secondary Accession #	Q3U4K4; Q588H1; Q8BKW2
UniProt Related Accession #	Q9CXH7
GenBank Nucleotide #	NM_028232.2
NCBI Official Full Name	shugoshin 1
NCBI Official Synonym Full Names	shugoshin 1
NCBI Official Symbol	Sgo1
NCBI Official Synonym Symbols	Sgol1; C81037; 3300001M08Rik
UniProt Protein Name	Shugoshin 1
UniProt Synonym Protein Names	Shugoshin-like 1
UniProt Gene Name	Sgo1
NCBI Protein Information	shugoshin 1; shugoshin-like 1
UniProt Comments for Sgol1	Plays a central role in chromosome cohesion during mitosis by preventing premature dissociation of cohesin complex from centromeres after prophase, when most of cohesin complex dissociates from chromosomes arms. May act by preventing phosphorylation of the STAG2 subunit of cohesin complex at the centromere, ensuring cohesin persistence at centromere until cohesin cleavage by ESPL1/separase at anaphase. Essential for proper chromosome segregation during mitosis and this function requires interaction with PPP2R1A. Its phosphorylated form is necessary for chromosome congression and for the proper attachment of spindle microtubule to the kinetochore. Necessary for kinetochore localization of PLK1 and CENPF. May play a role in the tension sensing mechanism of the spindle-assembly checkpoint by regulating PLK1 kinetochore affinity. Involved in centromeric enrichment of AUKRB in prometaphase.
Research Articles on Sgol1	**1.** Study shows Sgo1 expression in heart, gut, eye and other central nervous system tissue during development and post-development. It demonstrates Sgo1 localization in cytoplasmic region in nucleated cells in select organs.
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