

Shugoshin-1 (SGO1), Recombinant Protein

Cat *RP10511*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1*

Species *mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*
Zea mays (Mäize)

Full Product Name

Recombinant Zea mays Shugoshin-1 (SGO1)

Product Gene Name

SGO1 recombinant protein

Product Synonym Gene Name

SGO1

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MTSTAAEGAG SGSLNPPHSN PSGDGGPRIR SPPGKGNKPV ALADITNTGK PNAARSITVP DLVKENTKLL
TLLNEKTKII DLSRVEIYKL RLALQASKQQ NLHLTQNTSQ MLAEINTGKD RIKMLQHEL S CTTALLKVKD
SELD RKKNAG NVQQKGVKSQ VLKTKASTVA VEAHHVGDSV TSGVEHHVVE SQSAVSSNTV CQEPPQDGKQ
KRMPQRRRSS RLNQGSCEIR GVSQNTLHEN PVVPVAPSTL SLEKQYGQTT GKHMKSLQNE CSATVHEVIM
ASEFEKTEIN ELPQKTDLKE IPEACSSETE VQSHKIGDKA FNSKQNHGTG SQSSLSFNTV DTPEPPEDNT
VKRCSKRRSS IEDVNAKLDI ITSEPLRHEK KRKSRKISA RLNSVSSEHT DIVVETEHDK VIVSLAGSTS
NVSMEQRNTQ EQDGDGCF SRK SNENQILGRR SLRRAAEKVV SYKEMPLNVK MRRP

Sequence Positions

1-474, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

52,158 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Shugoshin

NCBI Accession

NP_001105791.1

NCBI GI

162461254

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1*

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NM_001112321.4
NCBI GeneID
606461

NCBI Official Full Name

shugoshin-1

NCBI Official Symbol

sgo1

NCBI Official Synonym Symbols

GRMZM2G074082

NCBI Protein Information

shugoshin-1

UniProt Gene Name

SGO1

UniProt Protein Name

Shugoshin-1

UniProt Synonym Protein Names

ZmSGO1

UniProt Primary Accession

Q4QSC8

UniProt Related Accession

Q4QSC8

UniProt Comments

Plays a central role in chromosome cohesion during meiosis I by preventing premature dissociation of cohesin complex from centromeres after prophase, when most of cohesin complex dissociates from chromosomes arms. Required for maintenance of centromeric cohesion before prophase II and correct segregation of chromatids during meiosis II. Has apparently no function in mitosis.

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