Structural Maintenance of Chromosomes Protein 5 (SMC5) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Structural maintenance of chromosomes protein 5 (Smc5), Recombinant Protein
Full Product Name	Recombinant Mouse Structural maintenance of chromosomes protein 5 (Smc5) , partial
Product Gene Name	Smc5 recombinant protein
Product Synonym Gene Name	Smc5
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	127,382 Da
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 Q8CG46
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Smc5 recombinant protein	MBS1312539 is a recombinant protein targeting Smc5. Also known as Recombinant Mouse Structural maintenance of chromosomes protein 5 (Smc5) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Smc5 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 Smc5. It may not necessarily be applicable to this product.

NCBI GI #	358248335
NCBI GeneID	226026
NCBI Accession #	NP_001239613.1
UniProt Primary Accession #	Q8CG46
UniProt Secondary Accession #	Q80TW7; Q8CHX5; Q922K3
UniProt Related Accession #	Q8CG46
GenBank Nucleotide #	NM_001252684.1
NCBI Official Full Name	structural maintenance of chromosomes protein 5 isoform 1
NCBI Official Synonym Full Names	structural maintenance of chromosomes 5

NCBI Official Symbol	Smc5
NCBI Official Synonym Symbols	SMC-5; mSMC5; Smc5l1; MLZ-453; mKIAA0594
UniProt Protein Name	Structural maintenance of chromosomes protein 5
UniProt Synonym Protein Names	Protein expressed in male leptotene and zygotene spermatocytes 453; MLZ-453
Protein Family	Structural maintenance of chromosomes protein
UniProt Gene Name	Smc5
UniProt Synonym Gene Names	Kiaa0594; Smc5l1; SMC protein 5; SMC-5; mSMC5; MLZ-453
NCBI Protein Information	structural maintenance of chromosomes protein 5
UniProt Comments for Smc5	Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components. Required for sister chromatid cohesion during prometaphase and mitotic progression; the function seems to be independent of SMC6 ().
Research Articles on Smc5	**1.** age-dependent depletion of the SMC5/6 complex in oocytes could contribute to increased incidence of oocyte aneuploidy and spontaneous abortion in aging females.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/structural-maintenance-of-chromosomes-protein-5-smc5/1312539