Structural Maintenance of Chromosomes Protein 6 (SMC6) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Structural maintenance of chromosomes protein 6 (SMC6), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Structural maintenance of chromosomes protein 6 (SMC6) , partial
Product Gene Name	SMC6 recombinant protein
Product Synonym Gene Name	SMC6
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	128,009 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 Q12749
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SMC6 recombinant protein	MBS1309205 is a recombinant protein targeting SMC6. Also known as Recombinant Saccharomyces cerevisiae Structural maintenance of chromosomes protein 6 (SMC6) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SMC6 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 SMC6. It may not necessarily be applicable to this product.

NCBI GI #	6323415
NCBI GeneID	851099
NCBI Accession #	NP_013487.1
UniProt Primary Accession #	Q12749
UniProt Secondary Accession #	D6VZ18
UniProt Related Accession #	Q12749
GenBank Nucleotide #	NM_001182272.1
NCBI Official Full Name	DNA repair protein SMC6

NCBI Official Symbol	SMC6
NCBI Official Synonym Symbols	RHC18
UniProt Protein Name	Structural maintenance of chromosomes protein 6
UniProt Synonym Protein Names	DNA repair protein RHC18; Rad18 homolog
Protein Family	Structural maintenance of chromosomes protein
UniProt Gene Name	SMC6
UniProt Synonym Gene Names	RHC18
NCBI Protein Information	DNA repair protein SMC6
UniProt Comments for SMC6	Acts in a DNA repair pathway for removal of UV-induced DNA damage that is distinct from classical nucleotide excision repair and in repair of ionizing radiation damage. Functions in homologous recombination repair of DNA double strand breaks and in recovery of stalled replication forks. Probably plays a role in structure.
Research Articles on SMC6	**1.** Mph1 is a double-edged sword whose action at hybrids must be regulated by the Smc5/6 complex. This is underlined by the observation that simultaneous inactivation of RNase H2 and Smc5/6 results in Mph1-dependent synthetic lethality.
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