Small COPII Coat Gtpase SAR1 (SAR1) Ashbya Gossypii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Small COPII coat GTPase SAR1 (SAR1), Recombinant Protein
Full Product Name	Recombinant Ashbya gossypii Small COPII coat GTPase SAR1 (SAR1)
Product Gene Name	SAR1 recombinant protein
Product Synonym Gene Name	SAR1; AFL114W
Product Synonym Names	Small COPII coat GTPase SAR1; EC=3.6.5.-
Sequence	MAVWDLFGWF RDILSSLGLW NKHGKLLFLG LDNAGKTTLL HMLKNDRLAT LQPTWHPTSE ELAIGSIKFT TFDLGGHIQA RRLWKDYFPE VNGIVFLVDA ADSERFNEAR VELDALFQIP ELKTVPFVIL GNKIDAPSAV SETELRAALG LLNTTGDARI EGQRPVELFM CSVVMKSGYL EAFQWLSQYI
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	21,428 Da
Sequence Positions	1-190aa; 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 Q755D7
Species	Ashbya gossypii (strain 10895 / CBS 109.51 / FGSC 9923 / NRRL Y-1056) (Yeast) (Eremothecium gossypii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SAR1 recombinant protein	MBS1325483 is a recombinant protein targeting SAR1. Also known as Recombinant Ashbya gossypii Small COPII coat GTPase SAR1 (SAR1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SAR1 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 SAR1. It may not necessarily be applicable to this product.

NCBI GI #	45198407
NCBI GeneID	4621663
NCBI Accession #	NP_985436.1
UniProt Primary Accession #	Q755D7
UniProt Related Accession #	Q755D7

GenBank Nucleotide #	NM_210790.1
NCBI Official Full Name	AFL114Wp
NCBI Official Symbol	AGOS_AFL114W
UniProt Protein Name	Small COPII coat GTPase SAR1
Protein Family	GTP-binding protein
UniProt Gene Name	SAR1
UniProt Entry Name	SAR1_ASHGO
NCBI Protein Information	AFL114Wp
UniProt Comments for SAR1	Small GTPase component of the coat protein complex II (COPII) which promotes the formation of transport vesicles from the endoplasmic reticulum (ER). The coat has two main functions, the physical deformation of the endoplasmic reticulum membrane into vesicles and the selection of cargo molecules. SAR1 controls the coat assembly in a stepwise manner. Activated SAR1-GTP binds to membranes first and recruits the SEC23/24 complex. These SEC23/24-SAR1 prebudding intermediates are then collected by the SEC13/31 complex as subunits polymerize to form coated transport vesicles. Conversion to SAR1-GDP triggers coat release and recycles COPII subunits ().
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.
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