Small COPII Coat Gtpase SAR1 (SAR1) Ustilago Maydis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Small COPII coat GTPase SAR1 (SAR1), Recombinant Protein
Full Product Name	Recombinant Ustilago maydis Small COPII coat GTPase SAR1 (SAR1)
Product Gene Name	SAR1 recombinant protein
Product Synonym Gene Name	SAR1
Sequence	MFIINWFWDI LAQLGLAHKN AKILFLGLDN AGKTTLLHML KNDRLATLQP TLHPTSEELA IGQVKFTTYD LGGHQQARRL WKDYFPEVDG IVFLVDTQDH ERFAEARAEL DALLSIEELS SVPFLILGNK IDAPGAVSEE ELRQAIGLYQ TTGKGKVPLK DIRPIEIFMC SVVMRQGYGE GFRWISQYI
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	21,418 Da
Sequence Positions	1-189, 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 Q4P0I7
Species	Ustilago maydis (strain 521 / FGSC 9021) (Smut fungus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SAR1 recombinant protein	MBS1308512 is a recombinant protein targeting SAR1. Also known as Recombinant Ustilago maydis 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 #	758987909
NCBI GeneID	23565981
NCBI Accession #	XP_011392666.1
UniProt Primary Accession #	Q4P0I7
UniProt Secondary Accession #	A0A0D1DME0
UniProt Related Accession #	Q4P0I7

GenBank Nucleotide #	XM_011394364.1
NCBI Official Full Name	putative Arf family GTPase SAR1
NCBI Official Symbol	UMAG_06376
UniProt Protein Name	Small COPII coat GTPase SAR1
Protein Family	GTP-binding protein
UniProt Gene Name	SAR1
NCBI Protein Information	putative Arf family GTPase SAR1
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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