Actin Cytoskeleton-Regulatory Complex Protein PAN1 (PAN1) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Actin cytoskeleton-regulatory complex protein PAN1 (PAN1), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Actin cytoskeleton-regulatory complex protein PAN1 (PAN1) , partial
Product Gene Name	PAN1 recombinant protein
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	160,267 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 P32521
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PAN1 recombinant protein	MBS1230093 is a recombinant protein targeting PAN1. Also known as Recombinant Saccharomyces cerevisiae Actin cytoskeleton-regulatory complex protein PAN1 (PAN1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PAN1 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 PAN1. It may not necessarily be applicable to this product.

NCBI GI #	398364573
NCBI GeneID	854822
NCBI Accession #	NP_012271.3
UniProt Primary Accession #	P32521
UniProt Secondary Accession #	D6VVT6
UniProt Related Accession #	P32521
GenBank Nucleotide #	NM_001179528.3
NCBI Official Full Name	Pan1p
NCBI Official Symbol	PAN1

NCBI Official Synonym Symbols	DIM2; MDP3; MIP3
UniProt Protein Name	Actin cytoskeleton-regulatory complex protein PAN1
UniProt Synonym Protein Names	Mitochondrial distribution of proteins protein 3
Protein Family	Actin cytoskeleton-regulatory complex protein
UniProt Gene Name	PAN1
UniProt Synonym Gene Names	DIM2; MDP3; MIP3
NCBI Protein Information	Pan1p
UniProt Comments for PAN1	Component of the PAN1 actin cytoskeleton-regulatory complex required for the internalization of endosomes during actin-coupled endocytosis. The complex links the site of endocytosis to the cell membrane-associated actin cytoskeleton. Mediates uptake of external molecules and vacuolar degradation of plasma membrane proteins. Plays a role in the proper organization of the cell membrane-associated actin cytoskeleton and promotes its destabilization. Required for the bipolar budding of diploid cells and the correct distribution of chitin at the cell surface.
Research Articles on PAN1	**1.** Thus Pan1 phosphorylation is part of a novel mechanism that regulates endocytic compartment interactions with each other and with actin cables.
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