V-Type Proton Atpase Catalytic Subunit A (VMA1) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	V-type proton ATPase catalytic subunit A (VMA1), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae V-type proton ATPase catalytic subunit A (VMA1)
Product Gene Name	VMA1 recombinant protein
Sequence	AGAIENARKE IKRISLEDHA ESEYGAIYSV SGPVVIAENM IGCAMYELVK VGHDNLVGEV IRIDGDKATI QVYEETAGLT VGDPVLRTGK PLSVELGPGL METIYDGIQR PLKAIKEESQ SIYIPRGIDT PALDRTIKWQ FTPGKFQVGD HISGGDIYGS VFENSLISSH KILLPPRSRG TITWIAPAGE YTLDEKILEV EFDGKKSDFT LYHTWPVRVP RPVTEKLSAD YPLLTGQRVL DALFPCVQGG TTCIPGAFGC GKTVISQSLS KYSNSDAIIY VG
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	118,637 Da
Sequence Positions	2-283, 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 P17255
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for VMA1 recombinant protein	MBS1227992 is a recombinant protein targeting VMA1. Also known as Recombinant Saccharomyces cerevisiae V-type proton ATPase catalytic subunit A (VMA1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of VMA1 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 VMA1. It may not necessarily be applicable to this product.

NCBI GI #	6320016
NCBI GeneID	851342
NCBI Accession #	NP_010096.1
UniProt Primary Accession #	P17255
UniProt Secondary Accession #	O74301; Q9Y7W5; D6VRG7

UniProt Related Accession #	P17255
GenBank Nucleotide #	NM_001180245.1
NCBI Official Full Name	H(+)-transporting V1 sector ATPase subunit A
NCBI Official Symbol	VMA1
NCBI Official Synonym Symbols	CLS8; TFP1
UniProt Protein Name	V-type proton ATPase catalytic subunit A
UniProt Synonym Protein Names	Vacuolar proton pump subunit A
UniProt Gene Name	VMA1
UniProt Synonym Gene Names	CLS8; TFP1; V-ATPase subunit A; VDE
NCBI Protein Information	H(+)-transporting V1 sector ATPase subunit A
UniProt Comments for VMA1	Catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase (vacuolar ATPase) is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. It is an electrogenic proton pump that generates a proton motive force of 180 mV, inside positive and acidic, in the vacuolar membrane vesicles. It may participate in maintenance of cytoplasmic Ca2+ homeostasis. This is a catalytic subunit.
Research Articles on VMA1	**1.** Loss of function of the vacuolar H-ATPase (vma1) or a defect in the biosynthesis of the osmolyte glycerol (gpd1) caused a prolonged repression of housekeeping genes and a delay in gene activation and adaptation towards salt stress.
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