Mannose-1-Phosphate Guanyltransferase (MPG1) Kluyveromyces Lactis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mannose-1-phosphate guanyltransferase (MPG1), Recombinant Protein
Full Product Name	Recombinant Kluyveromyces lactis Mannose-1-phosphate guanyltransferase (MPG1)
Product Gene Name	MPG1 recombinant protein
Product Synonym Gene Name	MPG1; PSA1; KLLA0E05379g
Product Synonym Names	Mannose-1-phosphate guanyltransferase; EC=2.7.7.13; GDP-mannose pyrophosphorylase; GTP-mannose-1-phosphate guanylyltransferase
Sequence	MKGLILVGGY GTRLRPLTLT VPKPLVEFGN RPMILHQIEA LAAAGVTDIV LAVNYRPEVM VETLKKYEDE FGVSITFSVE TEPLGTAGPL KLAESVLKKD NSPFFVLNSD VICDYPFKEL ADFHQAHGGK GTIVATKVDE PSKYGVIVHD IATPNLIDRF VEKPVEFVGN RINAGLYILN PEVIDLIDLK PTSIEKETFP ILVEQKSLYS FDLEGYWMDV GQPKDFLSGT VLYLNSLSKR DPAKLAKGEN IVGNVLVDPT AKISPTAKVG PDVVIGPNVV IGDGVRITRS VALSNSHIKD HALVKSTIIG WNSTVGKWAR LEGVTVLGDD VEVKDEIYIN GGKVLPHKSI SVNVPKEAII M
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	39,320 Da
Sequence Positions	1-361aa; 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 Q70SJ2
Species	Kluyveromyces lactis (strain 8585 / CBS 2359 / DSM 70799 / NBRC 1267 / NRRL Y-1140 / WM37) (Yeast) (Candida sphaerica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MPG1 recombinant protein	MBS1423891 is a recombinant protein targeting MPG1. Also known as Recombinant Kluyveromyces lactis Mannose-1-phosphate guanyltransferase (MPG1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MPG1 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 MPG1. It may not necessarily be applicable to this product.

NCBI GI #	50308377

NCBI GeneID	2894004
NCBI Accession #	XP_454190.1
UniProt Primary Accession #	Q70SJ2
UniProt Secondary Accession #	Q6CPE9
UniProt Related Accession #	Q70SJ2
GenBank Nucleotide #	XM_454190.1
NCBI Official Full Name	hypothetical protein
NCBI Official Symbol	KLLA0E05435g
UniProt Protein Name	Mannose-1-phosphate guanyltransferase
UniProt Synonym Protein Names	GDP-mannose pyrophosphorylase; GTP-mannose-1-phosphate guanylyltransferase
Protein Family	Hydrophobin-like protein
UniProt Gene Name	MPG1
UniProt Synonym Gene Names	PSA1
UniProt Entry Name	MPG1_KLULA
NCBI Protein Information	hypothetical protein
UniProt Comments for MPG1	Involved in cell wall synthesis where it is required for glycosylation. Involved in cell cycle progression through cell-size checkpoint ().
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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