Peptide-N (4)- (N-Acetyl-Beta-Glucosaminyl)asparagine Amidase (PNG1) Yarrowia Lipolytica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peptide-N (4)- (N-acetyl-beta-glucosaminyl)asparagine amidase (PNG1), Recombinant Protein
Full Product Name	Recombinant Yarrowia lipolytica Peptide-N (4)- (N-acetyl-beta-glucosaminyl)asparagine amidase (PNG1)
Product Gene Name	PNG1 recombinant protein
Product Synonym Gene Name	PNG1
Sequence	MSQATFAKEL TAKFAQLWTE KTKRPLPPVN QAMMQRLRQG QRQSGPNEVF SRVSALFRDL SLIPQSFENA ELQDMAMEIL PLDRLYSVAE ERAEEEGERD NWGLQDYLIM ELLRWFKQDY FTWVNSPPCE TCGENGNVQF VRRENSTPEE QKYDASGTEV HQCSNCNTEI RFPRYNDLSK LMETRRGRCG EWAKCFAFFC RALGLRTRYI WNAEDHVWSE VYSERRKEWI HTDSCEEAWN SPTIYSQGWG KKMSYVVGFS GDGVTDVTRR YVRKADQQLP RTMVPDEQFK TILNSITSDI RQNLSPSEKE ELKREDEAEE RELASYNADE PQEAQMPRQS GSVEWTKARG EGGSDD
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	41,494 Da
Sequence Positions	1-356, Full length
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 Q6CAX5
Species	Yarrowia lipolytica (strain CLIB 122 / E 150) (Yeast) (Candida lipolytica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PNG1 recombinant protein	MBS1421761 is a recombinant protein targeting PNG1. Also known as Recombinant Yarrowia lipolytica Peptide-N (4)- (N-acetyl-beta-glucosaminyl)asparagine amidase (PNG1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PNG1 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 PNG1. It may not necessarily be applicable to this product.

NCBI GI #	50549433
NCBI GeneID	2909617
NCBI Accession #	XP_502187.1

UniProt Primary Accession #	Q6CAX5
UniProt Related Accession #	Q6CAX5
GenBank Nucleotide #	XM_502187.1
NCBI Official Full Name	YALI0C23562p
NCBI Official Symbol	YALI0_C23562g
UniProt Protein Name	Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase
UniProt Synonym Protein Names	Peptide:N-glycanase 1
Protein Family	Chromatin modification-related protein
UniProt Gene Name	PNG1
UniProt Synonym Gene Names	PNGase
NCBI Protein Information	YALI0C23562p
UniProt Comments for PNG1	Specifically deglycosylates the denatured form of N-linked glycoproteins in the cytoplasm and assists their proteasome-mediated degradation. Cleaves the beta-aspartyl-glucosamine (GlcNAc) of the glycan and the amide side chain of Asn, converting Asn to Asp. Prefers proteins containing high-mannose over those bearing complex type oligosaccharides. Can recognize misfolded proteins in the endoplasmic reticulum that are exported to the cytosol to be destroyed and deglycosylate them, while it has no activity toward native proteins. Deglycosylation is a prerequisite for subsequent proteasome-mediated degradation of some, but not all, misfolded glycoproteins ().
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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