Penicillin-Binding Protein 1a (pbpA) Clostridium Novyi Recombinant Protein

PRODUCT OVERVIEW

Product Name	Penicillin-binding protein 1A (pbpA), Recombinant Protein
Full Product Name	Recombinant Clostridium novyi Penicillin-binding protein 1A (pbpA), partial
Product Gene Name	pbpA 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	95,824 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 A0PZT1
Species	Clostridium novyi (strain NT)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pbpA recombinant protein	MBS1200472 is a recombinant protein targeting pbpA. Also known as Recombinant Clostridium novyi Penicillin-binding protein 1A (pbpA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pbpA 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 pbpA. It may not necessarily be applicable to this product.

NCBI GI #	500041170
NCBI Accession #	WP_011721888.1
UniProt Primary Accession #	A0PZT1
GenBank Nucleotide #	WP_011721888.1
NCBI Official Full Name	penicillin-binding protein 1A
UniProt Protein Name	Penicillin-binding protein 1A
UniProt Synonym Protein Names	DD-transpeptidase
Protein Family	Penicillin-binding protein
UniProt Gene Name	pbpA
UniProt Synonym Gene Names	PBP1a

UniProt Comments for pbpA	Cell wall formation. Synthesis of cross-linked peptidoglycan from the lipid intermediates. The enzyme has a penicillin-insensitive transglycosylase N-terminal domain (formation of linear glycan strands) and a penicillin-sensitive transpeptidase C-terminal domain (cross-linking of the peptide subunits).
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