DNA Polymerase Alpha Catalytic Subunit A (POL1) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA polymerase alpha catalytic subunit A (POL1), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae DNA polymerase alpha catalytic subunit A (POL1) , partial
Product Gene Name	POL1 recombinant protein
Sequence	KKYFRREGGN NNGEDINNLQ PLETTITDVE RFKDTVTLEL SCPSCDKRFP FGGIVSSNYY RVSYNGLQCK HCEQLFTPLQ LTSQIEHSIR AHISLYYAGW LQCDDSTCGI VTRQVSVFGK RCLNDGCTGV MRYKYS
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	166,809 Da
Sequence Positions	1246-1381, Partial.
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 P13382
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for POL1 recombinant protein	MBS1228348 is a recombinant protein targeting POL1. Also known as Recombinant Saccharomyces cerevisiae DNA polymerase alpha catalytic subunit A (POL1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of POL1 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 POL1. It may not necessarily be applicable to this product.

NCBI GI #	398364843
NCBI GeneID	855621
NCBI Accession #	NP_014297.3
UniProt Primary Accession #	P13382
UniProt Secondary Accession #	D6W177
UniProt Related Accession #	P13382
GenBank Nucleotide #	NM_001182940.3

NCBI Official Full Name	DNA-directed DNA polymerase alpha catalytic subunit POL1
NCBI Official Symbol	POL1
NCBI Official Synonym Symbols	CDC17; CRT5; HPR3
UniProt Protein Name	DNA polymerase alpha catalytic subunit A
UniProt Synonym Protein Names	DNA polymerase I subunit A; DNA polymerase alpha:primase complex p180 subunit; DNA polymerase-primase complex p180 subunit; Pol alpha-primase complex p180 subunit
Protein Family	DNA polymerase
UniProt Gene Name	POL1
UniProt Synonym Gene Names	CDC17; DNA polymerase-primase complex p180 subunit; Pol alpha-primase complex p180 subunit
NCBI Protein Information	DNA-directed DNA polymerase alpha catalytic subunit POL1
UniProt Comments for POL1	Catalytic component of DNA polymerase alpha, which in complex with DNA primase (DNA polymerase alpha:primase) constitutes a replicative polymerase. POL1 has a role in promoting telomere replication during interaction with CDC13.
Research Articles on POL1	**1.** An intact Mcm10 coiled-coil interaction surface is important for origin melting, helicase assembly and the recruitment of Pol-alpha to Mcm2-7.
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