Protein P (P), Partial (P) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein P (P), partial, Recombinant Protein
Full Product Name	Recombinant Hepatitis B virus genotype C subtype adr Protein P (P), partial
Product Gene Name	P recombinant protein
Product Synonym Names	Protein P; Including the following 3 domains:; DNA-directed DNA polymerase; EC=2.7.7.7; RNA-directed DNA polymerase; EC=2.7.7.49; Ribonuclease H; EC=3.1.26.4
Sequence	LLEDWGPCTE HGEHNIRIPR TPARVTGGVF LVDKNPHNTT ESRLVVDFSQ FSRGSTHVSW PKFAVPNLQS LTNLLSSNLS WLSLDVSAAF YHIPLHPAAM PHLLVGSSGL PRYVARLSST SRNINYQHGT MQDLHDSCSR NLYVSLLLLY KTFGRKLHLY SHPIILGFRK IPMGVGLSPF LLAQFTSAIC SVVRRAFPHC LAFSYMDDVV LGAKSVQHLE SLFTSITNFL LSLGIHLNPN KTKRWGYSLN FMGYVIGSWG TLPQEHIVLK LKQCFRKLPV NRPIDWKVCQ RIVGLLGFAA PFTQCGYPAL MPLYACIQSK QAFTFSPTYK AFLCQQYLHL YPVARQRS
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	93,903 Da
Sequence Positions	340-687aa; 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 Q81165
Species	Hepatitis B virus genotype C subtype adr (isolate Japan/A4/1994) (HBV-C)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for P recombinant protein	MBS1329961 is a recombinant protein targeting P. Also known as Recombinant Hepatitis B virus genotype C subtype adr Protein P (P), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of P 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 P. It may not necessarily be applicable to this product.

NCBI GI #	75566897
NCBI Accession #	Q81165.1
UniProt Primary Accession #	Q81165
NCBI Official Full Name	Protein P

UniProt Protein Name	Protein P
UniProt Gene Name	P
UniProt Entry Name	DPOL_HBVC8
UniProt Comments for P	Multifunctional enzyme that converts the viral RNA genome into dsDNA in viral cytoplasmic capsids. This enzyme displays a DNA polymerase activity that can copy either DNA or RNA templates, and a ribonuclease H (RNase H) activity that cleaves the RNA strand of RNA-DNA heteroduplexes in a partially processive 3'- to 5'-endonucleasic mode. Neo-synthesized pregenomic RNA (pgRNA) are encapsidated together with the P protein, and reverse-transcribed inside the nucleocapsid. Initiation of reverse-transcription occurs first by binding the epsilon loop on the pgRNA genome, and is initiated by protein priming, thereby the 5'-end of (-)DNA is covalently linked to P protein. Partial (+)DNA is synthesized from the (-)DNA template and generates the relaxed circular DNA (RC-DNA) genome. After budding and infection, the RC-DNA migrates in the nucleus, and is converted into a plasmid-like covalently closed circular DNA (cccDNA). The activity of P protein does not seem to be necessary for cccDNA generation, and is presumably released from (+)DNA by host nuclear DNA repair machinery ().
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