HBV Polymerase Peptide – (502-510) Synthetic Peptide, >95% Purity

PRODUCT OVERVIEW

Product Name	HBV polymerase, Peptide
Full Product Name	HBV polymerase (502-510)
Host	Synthetic
Form/Format	Lyophilized Powder
Purity/Purification	> 95%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	1107.33
Molecular Formula	C53H82N14O12
Chemical Structure	Lys-Leu-His-Leu-Tyr-Ser-His-Pro-Ile
Related Product Information for HBV polymerase peptide	MBS8246573 is a peptide targeting HBV polymerase. Also known as HBV polymerase (502-510). Host: Synthetic. Peptide to HBV polymerase (502-510)
Other Notes	Small volumes of HBV polymerase peptide 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 HBV polymerase. It may not necessarily be applicable to this product.

NCBI GI #	59451
NCBI Accession #	CAA48354.1
UniProt Primary Accession #	Q67889
NCBI Official Full Name	HBV polymerase
UniProt Protein Name	Protein P
UniProt Entry Name	Q67889_HBV
UniProt Comments for HBV polymerase	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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