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32-5499: Recombinant HepatitisB Virus Core (1-183)

Description

Source : The E.Coli derived 18 kDa recombinant protein contains the HBV core ayw immunodominant region, amino acids 1-183. Hepatitis B is one of a few known non-retroviralviruses which employ reverse transcriptionas a part of its replication process. (HIV, a completely unrelated virus, also uses reverse transcription, but it is a retrovirus.) HBV invades the cell by binding to surface receptor and become internalized. The viral core particles then migrate to the hepatocyte nucleus and the partially double-stranded, relaxed circular genomes (RC-DNA) are repaired to form a covalently closed circular DNA (cccDNA), which is the template for viral genomic and sub-genomic RNAs by cellular RNA polymerase II. Of these, the pregenomic RNA (pgRNA is selectively packaged into progeny capsids and is then reverse-transcribed into new RC-DNA. The core can either bud into the endoplasmic reticulum to be enveloped or exported from the cell or recycled back into the genome for conversion to cccDNA.

Product Info

Amount :	0.5 mg
Purification :	HBV Core protein is >95% pure as determined by SDS-PAGE.
Content :	7.5mM phosphate buffer pH-7.2, 75mM NaCl and 50% glycerol.
Storage condition :	HBV Core protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Amino Acid :	MDIDPYKEFG ASVELLSFLP SDFFPSIRDL LDTASALYRE ALESPEHCSPHHTALRQAIL CWGELMNLAT WVGSNLEDPA SRELVVSYVN VNMGLKFRQL LWFHVSCLTF GRETVLEYLV SFGVWIRTPP AYRPPNAPIL STLPETTVVR RRGRSPRRRT PSPRRRRSQS PRRRRSQSRE SQC.