Recombinant HBV/Hepatitis B Virus Core (aa 1-186) His

Catalog No.	CSI15715A	**Quantity:**	100 µg
	CSI15715B		0.5 mg
	CSI15715C		1.0 mg

Description: Hepatitis B is one of a few known non-retroviral viruses which employ reverse transcription as 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.
The *E.coli* derived recombinant protein contains the HBV core immunodominant region amino acids 1-186, and fused to a His tag.

Source: *E. coli*

Formulation: 25 mM Tris-HCl pH-8.0 + 50 mM NaCl + 1.5 mM EDTA + 1.5 mM Urea & 50% glycerol.

Purity: HBV Core protein is >90% pure as determined by 10% PAGE (Coomassie staining).

Purification Method: HBV Core protein was purified by proprietary chromatographic technique.

Specific Activity: Immunoreactive with sera HBV-infected individuals.

Storage & Stability: HBV Core protein although stable at 4°C for 1 week, should be stored below -18°C. **Please prevent freeze thaw cycle**s.

Applications: HBV Core antigen is suitablr for ELISA and Western blots, excellent antigen for detection of HBV with minimal specificity problems.

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