Recombinant HBV/Hepatitis B Virus Core (delta, aa 1-144)

Catalog No.	CSI15718A	**Quantity:**	100 µg
	CSI15718B		0.5 mg
	CSI15718C		1.0 mg

Description: Hepatitis B is one of a few known non-retrovira lviruses 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 14 kDa recombinant protein contains the HBV core delta ayw immunodominant region amino acids 1-144.

Source: *E. coli*

Molecular Weight: 14 kDa

Formulation: 7.5 mM Phosphate buffer pH-7.2 + 75 mM NaCl + 50% glycerol.

Purity: HBV Core Delta protein is >95% pure as determined by 10% PAGE (coomassie staining).

Purification Method: Purified by proprietary chromatographic technique.

Specific Activity: Immunoreactive with sera HBV-infected individuals.

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

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

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