

Recombinant Human HBV Core Protein

Cat. No. HBcAg-15H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HBV core protein produced in <i>E. coli</i> has a molecular mass of 16823 Da.
Species	Human
Source	E.coli
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.
Purity	≥95% as determined by SDS-PAGE.
Concentration	0.2 mg / ml by BCA
Component	HBV core protein, NaHCO ₃ 10μl, pH 7.4

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Specific Activity	Immunoreactive with sera HBV-infected individuals.
Endotoxin	less than 10EU/mg as determined by LAL method
Applications	HBV Core antigen is stable in ELISA and Western blots, excellent antigen for detection of HBV with minimal specificity problems.
Storage buffter	Liquid. In NaHCO ₃ buffer
Storage	HBV Core protein is shipped at ambient temperature. Upon arrival, Store at -20°C . Five years frozen. One month in solution at room temperature.

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA