

# Recombinant Hepatitis B Virus C protein

Cat. No. C -74H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** HBcAg subtype adw2 produced in E.Coli, is a single, non-glycosylated, polypeptide chain containing 1-149 amino acids and having a molecular weight of approximately 20kDa. HBcAg adw2 1-149 protamine-like domain was truncated in order to enhance the differentiation of anti-HBe in ELISA test. HBcAg was purified by proprietary chromatographic techniques.

**Species** HBV

**Source** E.coli

**ProteinLength** 1-149 amino acids

**Description** 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.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Form</b>	Sterile filtered colorless solution. 1x PBS.
<b>Molecular Mass</b>	20kDa
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Usage</b>	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Stability</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Shipping</b>	Ice Packs

## GENE INFORMATION

<b>Gene Name</b>	C precore; HBe antigen; PreC; HBeAg; precore protein; external core antigen; HBeAg; p25 [ Hepatitis B virus ]
<b>Official Symbol</b>	C
<b>Synonyms</b>	C; precore; HBe antigen; PreC; HBeAg; precore protein; external core antigen; HBeAg; p25; pre-capsid protein; C0 uORF; capsid protein
<b>Gene ID</b>	944568
<b>Protein Refseq</b>	YP_009173857.1
<b>UniProt ID</b>	P03146

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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