

Recombinant Hepatitis B Virus C protein

Cat. No. C -77H Lot. No. (See product label)

SPECIFICATION

Product Overview The E.coli derived 14kDa recombinant protein contains the HBV core delta ayw immunodominant region amino acids 1-144.

Species HBV

Source E.coli

ProteinLength amino acids 1-144

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.

Form 7.5mM Phosphate buffer pH-7.2, 75mM NaCl, & 50% glycerol.

Molecular Mass 14kDa

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Purity	HBV Core Delta protein is >95% pure as determined by SDS-PAGE (coomassie staining).
Applications	HBV Core Delta antigen is suitable for ELISA and Western blots, excellent antigen for detection of HBV with minimal specificity problems.
Usage	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.
Specificity	Immunoreactive with sera HBV-infected individuals.
Storage	HBV Core Delta protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Shipping	Ice Packs

GENE INFORMATION

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

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UniProt ID

P03146

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