

Active Recombinant HBV core protein

Cat. No. CDA017 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HBV core (amino acids 1-183) was expressed in E. coli.
Species	HBV
Source	E.coli
ProteinLength	1-183 a.a.
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.
Form	7.5mM phosphate buffer pH-7.2, 75mM NaCl and 50% glycerol.
Bio-activity	Immunoreactive with sera HBV-infected individuals.
Molecular Mass	18 kDa recombinant protein contains the HBV core ayw immunodominant region,

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AA Sequence	MDIDPYKEFG ASVELLSFLP SFFFPSIRDL LDTASALYRE ALESPEHCSPHHTALRQAIL CWGELMNLAT WVGSNLEDPA SRELVVSYVN VNMGLKFRQL LWFHVSCCLTF GRETVLEYLV SFGVWIRTPP AYRPPNAPIL STLPETTVVR RRGRSPRRRT PSPRRRRRSQS PRRRRRSQSRE SQC.
Purity	HBV Core protein is >95% pure as determined by SDS-PAGE.
Storage	HBV Core protein although stable at 4 centigrade for 1 week, should be stored below -18 centigrade. Please prevent freeze thaw cycles.

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