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## Product Data Sheet

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Product Name: HBV core (1-183 a.a.)

Cat. No.: GP25328

Batch No.: 1

**Product Data**

Purity &gt;98%

Source

Physical  
Appearance

solid

Shipping  
Condition

Shipped with Ice Packs.

Amino Acid  
Sequence

MDIDPYKEFG ASVELLSFLP SDFFPSIRDL LDTASALYRE

ALESPEHCSPHHTALRQAIL CWGELMNLAT WVGSNLEDPA SRELVVSYVN

VNMGLKFRQL LWFHVSCLTF GRETVLEYLV SFGVWIRTPP AYRPPNAPIL

STLPETTIVR RRRGRSPRRRT PSPRRRRRSQS PRRRRRSQSRE SQC.

Formulation 1x PBS and 20% glycerol.

**Introduction**

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.

**Stability**

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

**Background**

The E.Coli derived 18 kDa recombinant protein contains the HBV core ayw immunodominant region, amino acids 1-183.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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