Product Data Sheet

Product Name:	HBV core (1-186 a.a.)
Cat. No.:	GP25327
Batch No.:	1

Product Data

Purity	>98%	Source	
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	25mM Tris-HCl pH-8.0, 1.5mM EDTA, 1.5mM Urea, 50% glycerol and 50Mm NaCl.		

Introduction

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.

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 recombinant protein contains the HBV core immunodominant region amino acids 1-186, and fused to a His tag at N- terminus.

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