

Product Information

Hepatitis B Virus-like Particles (HBV VLPs-HBs)

Cat. No.: **VLP-007YF**

This product is for research use only and is not intended for diagnostic use.

Recombinant Hepatitis B Virus-like Particles (HBV VLPs) are produced in mammalian HEK293 human cells, assembled with Surface antigens. VLP is mimicking the native 3D structure of viruses which can elicit strong immune responses. However, VLPs lack viral genomic material which makes them non-infectious, unable to replicate and enhance the safety during manufacture and administration. HBV VLPs can be used in the development of HBV diagnostics and in vaccine development and R&D (including use as an immunogen).

Product Specifications

Expression Systems

HEK293 (please specify if other expression system is needed)

Form

Liquid

Alternative Names

Hepatitis B Virus; HBV; Hepatitis B Virus VLP; HBV VLP; VLP; Virus-like particle

Storage

Store at -80 °C long term. Avoid repeated freeze/thaw cycles.

Virus Background

Virus Family

Hepadnaviridae

Virus Species

Hepatitis B Virus

Virus Overview

Hepatitis B virus (HBV), is a partially double-stranded DNA virus, a species of the genus Orthohepadnavirus and a member of the Hepadnaviridae family of viruses. This virus causes the disease hepatitis B. In addition to causing hepatitis, infection with HBV can lead to cirrhosis and hepatocellular carcinoma. It consists of HBsAg, HBcAg, DNA polymerase and HBx. Hepatitis B surface antigen (HBsAg) was the first hepatitis B virus protein to be discovered. It consists of small (S), medium (M) and large (L) protein.

Virus Structure

Enveloped, double-stranded DNA virus

Related Disease

Hepatitis B