



Recombinant HBsAg VLP [His] (DAG-WT366)

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

PRODUCT INFORMATION

Product Overview	HBsAg Viral Like Particles was packaged in HEK293T cells. It is the replication-incompetent particles in which the HBsAg (Surface antigen) of Hepatitis B virus (with 6His-tag at its C-terminal) was pseudo-typed as the lentiviral particles' surface envelope protein.
Conjugate	His
Applications	ELISA
Format	Liquid
Concentration	1×10 ⁸ VP/ml
Size	200 µl
Buffer	PBS, pH 7.4
Preservative	None
Storage	Store at -80°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction	HBV belongs to the Hepadnaviridae family of viruses. Its genome consists of partially double stranded circular DNA. The DNA is enclosed in a nucleocapsid, or core antigen (HBcAg), which is surrounded by a spherical envelope (surface antigen or HBsAg). The core antigen shares its sequences with the e antigen (HBeAg) but no cross reactivity between the two proteins has been observed. The HBV genome also encodes a DNA polymerase that also acts as a reverse transcriptase. Hepatitis B infection is normally diagnosed from serological tests that detect HBsAg but as the disease progresses this antigen may no longer be present in the blood and tests for HBcAg are used. If HBsAg can be detected in the blood for longer than six months, chronic hepatitis B is diagnosed. The antigenic determinant of the protein moiety of the HBsAg
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determines specific characteristics of different serotypes and provides the basis of immunodetection. HBsAg has antigenic heterogeneity, specifically, two pairs of sub specific determinants, d/y and w/r allow the following combinations: adw, ayw, adr, ayr.

Keywords	HBsAg; VLP; sAg; ssAg
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