

HBsAg-preS1

Cat. No.: Z02815-100

Size: 100.0 ug

Synonyms: Hepatitis B Surface Antigen preS1 (HBsAg-preS1)

Description:

Hepatitis B virus (HBV) is a human pathogen, causing serious liver disease. The HBV surface protein antigens (HBsAg) are comprised of three carboxyl co terminal HBs proteins termed large (LHBs), middle (MHBs) and small (SHBs, also called major) protein. LHBs and MHBs also share the highly hydrophobic, repetitive, membrane spanning S domain. In addition, LHBs has a 119 amino acid region called preS1.

Amino Acid Sequence:

00001 MGGWSSKPRQ GMGTNLSVFN PLGFFPDHQL DPAFGANSNN
00041 PDWDFNPNKD HWPEAHQVGA GAFGPGFTTP HGLLGWSPQ
00081 AQGILTTVPV APPPASTNRQ SGRQPTPISP PLRDSHPQA

Source: *E. coli*

Molecular Weight: Approximately 12.6 kDa, a single non-glycosylated polypeptide chain containing 119 amino acids.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4, 50mM NaCl.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 97% by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 0.2EU/ug of rHBsAg-preS1 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.