

Recombinant Hepatitis B Surface Antigen preS1

Catalog No.	CSI20116A CSI20116B CSI20116C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	HBsAg-preS1		
Description:	<p>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. Recombinant Hepatitis B Surface Antigen preS1 is a single non-glycosylated polypeptide chain containing 119 amino acids.</p>		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Source:	<i>E. coli</i>		
Molecular Weight:	~12.6 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution of 20 mM PB, pH 7.4 + 50 mM NaCl.		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Amino Acid Sequence:	MGGWSSKPRQ GMGTNLSVPN PLGFFPDHQL DPAFGANSNN PDWDFNPNKD HWPEAHQVGA GAFGPGFTTP HGLLGWSPQ AQGILTTVPV APPPASTNRQ SGRQPTPISP PLRDSHPQA		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Applications:	1. Immunochromatography (capture and conjugate); 2. Preparing monoclonal or polyclonal antibodies for HBsAg-preS1; 3. ELISA.		
Storage & Stability:	This lyophilized preparation is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After 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 -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. Avoid repeated freeze/thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

