

Recombinant Hepatitis B Surface Antigen preS2

Catalog No.	CSI20117A CSI20117B CSI20117C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	HBsAg-preS2		
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, MHBs has a 55 amino acid region called preS2.</p> <p>Recombinant Hepatitis B Surface Antigen preS2 is a single non-glycosylated polypeptide chain containing 55 amino acids.</p>		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Source:	<i>E. coli</i>		
Molecular Weight:	~5.7 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:	MQWNSTTFHQ ALLDPKVRGL YFPAGGSSSG TVNPVPTTAS PISSIFSRTG DPAPN		
Reconstitution:	<p>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.</p>		
Applications:	<ol style="list-style-type: none"> 1. Immunochromatography (capture and conjugate) 2. Preparing monoclonal or polyclonal antibodies for HBsAg-preS2 3. ELISA 		
Storage & Stability:	<p>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.</p> <p>Avoid repeated freeze/thaw cycles.</p>		

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