Recombinant Hepatitis B Surface Antigen preS1 (rHBsAg-preS1)

PrimeGene Technical Data Sheet

Catalog Number:	672-01
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 12.6 kDa, a single non-glycosylated polypeptide chain containing 119 amino acids.
Quantity:	10μg/50μg/1000μg
AA Sequence:	MGGWSSKPRQ GMGTNLSVPN PLGFFPDHQL DPAFGANSNN PDWDFNPNKD HWPEAHQVGA GAFGPGFTPP HGGLLGWSPQ AQGILTTVPV APPPASTNRQ SGRQPTPISP PLRDSHPQA
Purity:	> 97% by SDS-PAGE and HPLC analyses.
Applications:	1. Immunochromatography (capture and conjugate); 2. Preparing monoclonal or polyclonal antibodies for HBsAg-preS1; 3. ELISA.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Endotoxin:	Less than 1 EU/μg of rHBsAg-preS1 as determined by LAL method.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● Refer to lot specific COA for the Use by Date when stored at ≤ -20 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

Hepatitis B Surface Antigen preS1

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.

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