



Technical Data Sheet

Recombinant Hepatitis B Surface Antigen preS2 (rHBsAg-preS2)

Hepatitis B Surface Antigen preS2

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.

Catalog Number:	RC783-13
Source:	<i>Escherichia coli</i>
Molecular Weight:	Approximately 5.7 kDa, a single non-glycosylated polypeptide chain containing 55 amino acids.
Quantity:	20ug/100ug/1mg
Purity:	>95% by SDS-PAGE and HPLC analyses.
Applications:	1. Immunochromatography (capture and conjugate); 2. Preparing monoclonal or polyclonal antibodies for HBsAg-preS2; 3. ELISA.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in 20mM PB, pH 7.4, 50mM NaCl.
AA Sequence:	MQWNSTTFHQALLDPKVRGLYFPAGGSSSGTVNPNVPTTASPISIFSRTGDPA PN
Endotoxin:	Less than 1EU/µg of rHBsAg-preS2 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.
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.
Usage:	This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.