

□ Cat # RP-446

Recombinant Hepatitis B Surface Antigen preS1

Size: □ 10 ug □ 50 ug

Introduction:

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.

Description:

The E.Coli derived Recombinant Hepatitis B Surface Antigen preS1 is a single non-glycosylated polypeptide chain containing 119 amino acids and having a molecular weight of 12.6 kDa

Purification Method:

HBsAg protein was purified by proprietary chromatographic technique.

Purity:

HBsAg Protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation:

HBsAg protein was lyophilized from 0.2µm filtered (1mg/ml) solution in 20mM PB, pH 7.4, and 50mM NaCl.

Applications:

1. Immunochromatography (capture and conjugate).
2. Preparing monoclonal or polyclonal antibodies for HBsAg-preS1.
3. ELISA.

Solubility:

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 HBsAg preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

Amino Acid Sequence:

MGGWSSKPRQGMGTNLSVNPPLGFFPDHQLDPAFG
ANSNNPDWDFNPNKDHWPEAHQVGAGAFGPGFTP
PHGLLGWSPQAQGILTTVPVAPPPASTNRQSGRQP
TPISPLRDSHPQA

Usage:

This item is for LABORATORY ESEARCH USE ONLY.
The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Rev. 130304P

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400 Fax: +91-11-42208444 Email: customerservice@lifetechindia.com Website: www.lifetechindia.com