9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-13593: HBV Pre-S

Alternative Name :	Hepatitis B virus surface gene encodes 3 proteins: small (HBs), middle (MHBs) and large (LHBs) surface protein. These 3 proteins are translated from distinct start codons, however share a common reading frame and stop codon. HBs contains 226 amino acids, it is a major viral envelope component. MHBs has extra 55 amino acids (Pre-S2) located to the N-terminus of HBs, LHBs has an additional 119 amino acids (Pre-S1). Pre-S is a region is comprised of Pre-S1 and S2, Pre-S1 has a vital role in receptor recognition, while Pre-S2 plays a part in translocation of virus into host cell. Clinically, HBV pre-S is linked with HBsAg and HBV DNA copies, which indicates active replication of virus, reduction of pre-S is typically associated with decreased HBV DNA copies, pointing to an improved predictor of treatment. In addition, Pre-S is a potential vaccine under development to enhance currently used HBsAg vaccine.

Description

Source: Escherichia Coli.
Sterile Filtered solution.
Hepatitis B virus surface gene encodes 3 proteins: small (HBs), middle (MHBs) and large (LHBs) surface protein. These 3 proteins are translated from distinct start codons, however share a common reading frame and stop codon. HBs contains 226 amino acids, it is a major viral envelope component. MHBs has extra 55 amino acids (Pre-S2) located to the N-terminus of HBs, LHBs has an additional 119 amino acids (Pre-S1). Pre-S is a region is comprised of Pre-S1 and S2, Pre-S1 has a vital role in receptor recognition, while Pre-S2 plays a part in translocation of virus into host cell. Clinically, HBV pre-S is linked with HBsAg and HBV DNA copies, which indicates active replication of virus, reduction of pre-S is typically associated with decreased HBV DNA copies, pointing to an improved predictor of treatment. In addition, Pre-S is a potential vaccine under development to enhance currently used HBsAg vaccine.
Recombinant Hepatitis B Virus Pre-S produced in E.coli is a full length Pre-S of HBV subtype adw2, containing 174 amino acids, having a molecular weight of about 25kDa including a vector sequence and linked with a 6xHis tag at C- terminus.

Product Info

Amount :	100 µg / 0.5 mg
Purification :	Protein is >95% pure as determined by 12% PAGE (coomassie staining).
Content :	Sterile Filtered solution containing PBS, 1M urea and 0.05% sodium azide.
Storage condition :	HBV Pre-S although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.