

## 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.

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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

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