

Recombinant Hepatitis B Virus S protein, His-tagged

Cat. No. S-79H Lot. No. (See product label)

SPECIFICATION

Product Overview	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.
Species	HBV
Source	E.coli
ProteinLength	174 amino acids
Description	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.
Form	Sterile Filtered solution. Sterile Filtered solution containing PBS, 1M urea and 0.05% sodium azide.

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Molecular Mass	25kDa
Purity	Protein is >95% pure as determined by 12% PAGE (coomassie staining).
Applications	Immunoassay.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Storage	HBV Pre-S although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Shipping	Ice Packs

GENE INFORMATION

Gene Name	S long surface protein; PreS1; L protein; LHBs; large S protein; pre-S1/pre-S2/S regions; L glycoprotein; L-HBsAG; LHBs [Hepatitis B virus]
Official Symbol	S
Synonyms	S; long surface protein; PreS1; L protein; LHBs; large S protein; pre-S1/pre-S2/S regions; L glycoprotein; L-HBsAG; LHBs; large envelope protein; middle envelope protein; small envelope protein
Gene ID	944569
Protein Refseq	YP_009173869.1
UniProt ID	Q2F515

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