HBV (Genotype B) Pre-S Recombinant Protein

CATALOG NUMBER: HBV-S-005P, 50 µg

Applications	Immunochromatography, antibody ELISA, antigen, etc.
Introduction	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.
Description	The C-terminal 6x his tagged recombinant Hepatitis B virus Pre-S is a single non-glycosylated polypeptide chain containing 174 amino acids and having a molecular weight of 20 kDa. (GenBank accession#: AGP08909).
Source	*E.coli*.
Storage	Store at 4 ºC but should be kept at -20 ºC for long term storage. Non-hazardous.
Concentration	1 µg/µl in PBS with 8M urea
Purity	≥ 95% purity (determined by SDS PAGE).

HBV PRE-S PROTEIN SEQUENCE:

MGGWSSKPRKGMGTNLSVPNPLGFFPDHQLDPAFKANSENPDWDLNPHKDNWPDANKVGVGAFGPGFTPPHGGLLGWSPQAQ
GILTTVPAAPPPASTNRQSGRQPTPLSPPLRDTHPQAMQWNSTTFHQTLQDPRVRALYFPAGGSSSGTVSPAQNTVSAISSI
LSKTGDPVPN

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