



Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Hepatitis B virus (HBV) is an infectious, and potentially fatal, human disease that causes serious liver disease. There are three start codons on the Gene S HBV surface protein antigen (HBsAg) that divide the gene into three sections: pre-S1, pre-S2, and S. These start sites create three carboxyl, coterminal polypeptides that are called large (LHB, the order from surface to the inside: pre-S1, pre-S2, and S), middle (MHB, containing the pre-S2 and S portion) and small (SHB, covering only the S portion). The pre-S1 amino acid region of LHBs consists of 119 amino acids and has been shown to interact with its human binding partner, γ 2-adaptin, to subvert the membrane-trafficking apparatus to mediate virion export. HBsAg-PreS1 can be used for Immunochromatography, monoclonal and polyclonal antibody preparation or for ELISA analysis.

Catalog Number	6820-01
Product Name	Hepatitis B (HBV) Surface Antigen preS1 Recombinant Hepatitis B (HBV) Surface Antigen preS1 rHBsAg-preS1
Source	<i>Escherichia coli</i>
MW	~12.6 kDa (119 amino acids)
Sequence	MGGWSSKPRQ GMGTNLSVFN PLGFFPDHQL DPAFGANSNN PDWDFNPND HWPEAHQVGA GAFGPGFTPP HGLLGWSPQ AQQILTTPV APPASTNRQ SGRQPTPISP PLRDSHPQA
Purity	>97% by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.