

Product datasheet for **BIN061**

Hepatitis B Surface Antigen / HBsAg (ayw) Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Hepatitis B Surface Antigen / HBsAg (ayw) recombinant protein, 0.5 mg
Expression Host:	<i>S. cerevisiae</i>
Concentration:	lot specific
Purity:	>98% pure by SDS-PAGE). Purification is conducted from broken yeast cells by the following scheme: Clarification, Microfiltration, Ultrafiltration, Adsorption Chromatography, Ion-exchange chromatography, Ultracentrifugation and Sterile Filtration. Product is sterile filtered.
Buffer:	Presentation State: Purified State: Liquid (sterile filtered) purified protein. Buffer System: 0.05M Phosphate, 0.2M NaCl, pH 7.2 without preservatives.
Preparation:	Liquid (sterile filtered) purified protein.
Applications:	Tested in ELISA with anti-HBsAg antibodies.
Protein Description:	Recombinant Hepatitis B Surface Antigen (HBsAg), (ayw) (S region). Recombinant HBsAg is a 24 kDa protein. Genotype B. Does not contain a fusion partner.
Storage:	Store the antigen at 2-8°C.
Stability:	Shelf life: six months from despatch.
Synonyms:	HBV surface antigen, Hepatitis B Virus
Summary:	Hepatitis B Virus (HBV) infection induces a disease state which manifests itself in a variety of ways, characterized by the extent of liver damage, inflammation and viral persistence. HBV infection is also associated with a 100 fold increased risk of hepatocellular carcinoma and currently infects over 250 million people worldwide. HBV has a partially double stranded 3.2 kilobase DNA genome which contains four open reading frames. One of these encodes a 154 amino acid protein called the HBx protein. HBx has been shown to be a transcriptional transactivator of both viral and cellular promoters. Lacking a DNA binding domain and nuclear localization signal, HBx is believed to exert transcriptional activity through protein protein interaction.



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Protein Families: Tested in ELISA with anti-HBsAg antibodies.