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Product datasheet for BIN093

Hepatitis B Surface Antigen / HBsAg (adr) Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Hepatitis B Surface Antigen / HBsAg (adr) recombinant protein, 0.5 mg
Expression Host:	S. cerevisiae
Concentration:	lot specific
Purity:	>98% Ion exchange chromatography. Product is sterile filtered.
Buffer:	Presentation State: Purified State: Liquid purified Ig fraction (>95% pure by HPLC). Buffer System: 10 mM Phosphate and 145 mM Sodium Chloride as buffer, containing 0.09% Sodium Azide as preservative.
Preparation:	Liquid purified Ig fraction (>95% pure by HPLC).
Applications:	Suitable for use in ELISA (capture and conjugate), Immunochromatography (capture and conjugate) and Immunogen for monoclonal antibody production. Tested in ELISA with anti HBsAg antibodies.
Protein Description:	Recombinant Hepatitis B Surface Antigen (HBsAg),(adr)(S Region). Recombinant HBsAg is a 24 kDa protein. Does not contain a fusion partner.
Storage:	Store the antigen at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid multiple freeze/thaw cycles.
Stability:	Shelf life: six months from despatch.
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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