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PA1300X

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Recombinant Hepatitis B Virus HBE (HBV HBE)

Alternate names: HBV External core antigen, HBV Precore protein

Catalog No.: PA1300X
Quantity: 0.5 mg
Concentration: 1.0 mg/ml

Background: Hepatitis B is one of a few known non-retroviral viruses which employ reverse

transcriptionas a part of its replication process. (HIV, a completely unrelated virus, also uses reverse transcription, but it is a retrovirus.) HBV invades the cell by binding to surface receptor and become internalized. The viral core particles then migrate to the hepatocyte nucleus and the partially double-stranded, relaxed circular genomes (RC-DNA) are repaired to form a covalently closed circular DNA (cccDNA), which is the template for viral genomic and sub-genomic RNAs by cellular RNA polymerase II. Of these, the pregenomic RNA (pgRNA is selectively packaged into progeny capsids and is then reverse-transcribed into new RC-DNA. The core can either bud into the endoplasmic reticulum to be enveloped or exported from the cell or recycled back into the genome for conversion to cccDNA.

Species: Human
Source: E. coli

Format: State: Liquid purified protein

Purity: >95% pure as determined by 10% PAGE (coomassie staining). Buffer System: 25mM Tris-HCl pH 8.0, 1.5 M Urea and 50% Glycerol

Applications: ELISA.

Western blots.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Description: The E. Coli derived recombinant protein contains the HBV HBe adw immunodominant

region is fused to GST. Purified by proprietary chromatographic technique. **Biological Activity:** Immunoreactive with sera HBV-infected individuals.

Molecular weight: 43.7 kDa

Storage: The protein can be shipped at 2-8°C.

Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Kanwal F, Gralnek IM, Martin P, Dulai GS, Farid M, Spiegel BM. Treatment alternatives for

chronic hepatitis B virus infection: a cost-effectiveness analysis. Ann Intern Med. 2005 May

17;142(10):821-31. PubMed PMID: 15897532.

2. Summaries for patients. Antiviral regimens for chronic hepatitis B virus infection. Ann

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- 3. Silva PA, Fiaccadori FS, Borges AM, Silva SA, Daher RR, Martins RM, et al. Seroprevalence of hepatitis B virus infection and seroconvertion to anti-HBsAg in laboratory staff in Goiânia, Goiás. Rev Soc Bras Med Trop. 2005 Mar-Apr;38(2):153-6. Epub 2005 Mar 30. PubMed PMID: 15821790.
- 4. Tangkijvanich P, Mahachai V, Komolmit P, Fongsarun J, Theamboonlers A, Poovorawan Y. Hepatitis B virus genotypes and hepatocellular carcinoma in Thailand. World J Gastroenterol. 2005 Apr 21;11(15):2238-43. PubMed PMID: 15818732.
- 5. Paul S, Tabassum S, Islam MN. Interferon-gamma (IFN-gamma) response to different hepatitis B virus antigens in hepatitis B virus infection. Bangladesh Med Res Counc Bull. 2004 Aug;30(2):71-7. PubMed PMID: 15813485.
- 6. Aras C, Ozdamar A, Ergin S, Ozturk R, Midilli K, Karacorlu M, et al. Failure to detect hepatitis B virus in vitreous by polymerase chain reaction. Ophthalmologica. 2005 MarApr;219(2):93-6. PubMed PMID: 15802933.



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