Large envelope Protein, HBV-A (Cell-Free, P17101, His)

Cat. No.:	HY-P702355
Synonyms:	Large envelope protein; L glycoprotein; L-HBsAg; LHB; Large S protein; Large surface protein; Major surface antigen
Species:	Virus
Source:	E. coli Cell-free
Accession:	P17101 (G2-I400)
Gene ID:	/
Molecular Weight:	45.1 kDa

PROPERTIES

AA Sequence	G G W S S K P R K G M G T N L S V P N P L G F F P D H Q L D P V F G A N S N N P D W D F N P I K D H W P A A N Q V G V G A F G P G F T P P H G G V L G W S P Q A Q G M L T P V S T I P P P A S A N R Q S G R Q P T P I S P P L R D S H P Q A M Q W N S T A F H Q A L Q D P R V R G L Y F P A G G S S S G T V N P A P N I A S H I S S I S A R T G D P V T N M E N I T S G F L G P L P V L Q A G F F L L T R I L T I P Q S L D S W W T S L N F L G G S P V C L G Q N S R S P T S N H S P T S C P P I C P G Y R W M C L R R F I I F L F I L L L C L I F L L V L L D Y Q G M L P V C P L I L G S T T T S T G P C K T C T T P A Q G N S M F P S C C C T K P T D G N C T C I P I P S S W A F A K Y L W E W A S V R F S W L S L L V P F V Q W F V G L S P T V W L S A I W M M W Y W G P S L Y S I V S S F I P L L P I F F C L W V Y I
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The Large Envelope Protein exhibits two distinct topological conformations, termed 'external' or Le-HBsAg, and 'internal' or

Li-HBsAg. In its external conformation, the protein serves as a crucial mediator for attaching the virus to cell receptors, initiating infection, and determining species specificity and liver tropism. This interaction prompts virion internalization primarily through caveolin-mediated endocytosis, while also facilitating fusion between the virion membrane and the endosomal membrane. In its internal conformation, the protein plays a pivotal role in virion morphogenesis and functions as a matrix protein, establishing contact with the nucleocapsid. Simultaneously, the middle envelope protein contributes significantly to virion budding, inducing a nucleocapsid-independent process. This budding process leads to the formation of subviral lipoprotein particles with a diameter of 22 nm, lacking a nucleocapsid.

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