

Recombinant HBV (B1 subtype) Envelope Protein, Biotinylated

Catalog Number: 230-30172B

Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/27/2024

Source

Species	Hepatitis B virus (HBV)
Accession Number	P17398
Gene Symbols	S
Synonyms	HBV Large Envelope Protein (B1 subtype), L glycoprotein, L-HBsAg, Large S protein
Expressed Region	Met1-Ser169

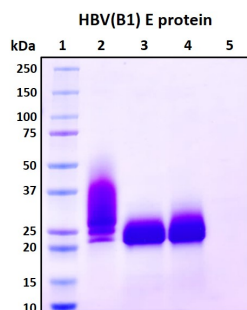
Preparation

Expression System	HEK293 cells
Tag	C-terminal his-tag. The primary amino groups (-NH ₂) at the N-terminus and the side chains of lysine (K) residues were biotin-conjugated using the standard chemical labeling method.
Purity	>95%
Molecular Weight	Recombinant protein product has a calculated molecular mass of ~20 kDa. Due to the abundant glycosylation, it migrates as approximately 20-40 kDa protein smear bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. After deglycosylation under native and denature conditions, the protein presented as one reduced ~20 kDa band. See deglycosylation analysis image below.
Endotoxin Level	< 0.5 EU per µg of the protein as determined by the LAL method

Specifications

Format	Lyophilized powder (slight pink)
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)
Concentration	Determined by BCA protein assay
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1.0 mg/mL with sterile deionized water.

SDS-PAGE Image



Shipping

The product is shipped with ice packs. Upon arrival, immediately store it at the temperature recommended below.

Storage/Stability

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer.
- Generally, the shelf life is up to 12 months from date of receipt at -20°C or -80°C under sterile conditions.
- Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots at -20°C or -80°C.