Small Envelope Protein (S) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Small envelope protein (S), Recombinant Protein
Full Product Name	Recombinant Hepatitis B virus genotype C subtype adr Small envelope protein (S), partial
Product Gene Name	S recombinant protein
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	25,397 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P30019
Species	Hepatitis B virus genotype C subtype adr (isolate China/NC-1/1988) (HBV-C)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for S recombinant protein	MBS7060379 is a recombinant protein targeting S. Also known as Recombinant Hepatitis B virus genotype C subtype adr Small envelope protein (S), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of S recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for S. It may not necessarily be applicable to this product.

NCBI GI #	267364
NCBI Accession #	P30019.1
UniProt Primary Accession #	P30019
NCBI Official Full Name	Small envelope protein
UniProt Protein Name	Small envelope protein
UniProt Synonym Protein Names	S glycoprotein; S-HBsAg; SHB; Small S protein; Small surface protein
Protein Family	Small envelope protein
UniProt Gene Name	S
UniProt Synonym Gene Names	SHB

UniProt Comments for S	The large envelope protein exists in two topological conformations, one which is termed 'external' or Le-HBsAg and the other 'internal' or Li-HBsAg. In its external conformation the protein attaches the virus to cell receptors and thereby initiating infection. This interaction determines the species specificity and liver tropism. This attachment induces virion internalization predominantly through caveolin-mediated endocytosis. The large envelope protein also assumes fusion between virion membrane and endosomal membrane (Probable). In its internal conformation the protein plays a role in virion morphogenesis and mediates the contact with the nucleocapsid like a matrix protein ().
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