Capsid Protein (C) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Capsid protein (C), Recombinant Protein
Full Product Name	Recombinant Hepatitis B virus genotype A2 subtype adw Capsid protein (C)
Product Gene Name	C recombinant protein
Sequence	MDIDPYKEFG ATVELLSFLP SDFFPSVRDL LDTASALYRE ALESPEHCSP HHTALRQAIL CWGELMTLAT WVGNNLQDPA SRDLVVNYVN TNMGLKIRQL LWFHISCLTF GRETVLEYLV SFGVWIRTPP AYRPPNAPIL STLPETTVVR RRDRGRSPRR RTPSPRRRRS QSPRRRRSQS RESQC
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	24,642 Da
Sequence Positions	1-185, Full length protein
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 P03149
Species	Hepatitis B virus genotype A2 subtype adw (isolate Japan/Nishioka/1983) (HBV-A)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for C recombinant protein	MBS1215645 is a recombinant protein targeting C. Also known as Recombinant Hepatitis B virus genotype A2 subtype adw Capsid protein (C). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of C 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 C. It may not necessarily be applicable to this product.

NCBI GI #	116945
NCBI Accession #	P03149.1
UniProt Primary Accession #	P03149
NCBI Official Full Name	Capsid protein
UniProt Protein Name	Capsid protein
UniProt Synonym Protein Names	Core antigen
Protein Family	Capsid assembly protease

UniProt Gene Name	C
UniProt Comments for C	Self assembles to form an icosahedral capsid. Most capsid appear to be large particles with a icosahedral symmetry of T=4 and consist of 240 copies of capsid protein, though a fraction forms smaller T=3 particles consisting of 180 capsid proteins. Entering capsid are transported along microtubules to the nucleus. Phosphorylation of the capsid is thought to induce exposure of nuclear localization signal in the C-terminal portion of the capsid protein that allows binding to the nuclear pore complex via the importin (karyopherin-) alpha and beta. Capsids are imported in intact form through the nuclear pore into the nuclear basket, where it probably binds NUP153. Only capsids that contain the mature viral genome can release the viral DNA and capsid protein into the nucleoplasm. Immature capsids get stucked in the basket. Capsids encapsulate the pre-genomic RNA and the P protein. Pre-genomic RNA is reverse transcribed into DNA while the capsid is still in the cytoplasm. The capsid can then either be directed to the nucleus, providing more genome for transcription, or bud through the endoplasmic reticulum to provide new virions.
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