Protein X (X) Woodchuck Hepatitis B Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein X (X), Recombinant Protein
Full Product Name	Recombinant Woodchuck hepatitis B virus Protein X (X)
Product Gene Name	X recombinant protein
Sequence	MAARLCCQLD PARDVLLLRP FGSQSSGPPF PRPSAGSAAS PASSLSASDE SDLPLGRLPA CFASASGPCC LVVTCAELRT MDSTVNFVSW HANRQLGMPS KDLWTPYIRD QLLTKWEEGS IDPRLSIFVL GGCRHKCMRL P
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	15,222 Da
Sequence Positions	1-141, 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 P03167
Species	Woodchuck hepatitis B virus (isolate 1) (WHV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for X recombinant protein	MBS1262887 is a recombinant protein targeting X. Also known as Recombinant Woodchuck hepatitis B virus Protein X (X). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of X 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 X. It may not necessarily be applicable to this product.

NCBI GI #	139897
NCBI Accession #	P03167.1
UniProt Primary Accession #	P03167
NCBI Official Full Name	Protein X
UniProt Protein Name	Protein X
UniProt Synonym Protein Names	HBx
Protein Family	Protein

UniProt Gene Name	X
UniProt Comments for X	Multifunctional protein that plays a role in silencing host antiviral defenses and promoting viral transcription. Does not seem to be essential for HBV infection. May be directly involved in development of cirrhosis and liver cancer (hepatocellular carcinoma). Most of cytosolic activities involve modulation of cytosolic calcium. The effect on apoptosis is controversial depending on the cell types in which the studies have been conducted. May induce apoptosis by localizing in mitochondria and causing loss of mitochondrial membrane potential. May also modulate apoptosis by binding host CFLAR, a key regulator of the death-inducing signaling complex (DISC). Promotes viral transcription by using the host E3 ubiquitin ligase DDB1 to target the SMC5-SMC6 complex to proteasomal degradation. This host complex would otherwise bind to viral episomal DNA, and prevents its transcription. Moderately stimulates transcription of many different viral and cellular transcription elements. Promoters and enhancers stimulated by HBx contain DNA binding sites for NF-kappa-B, AP-1, AP-2, c-EBP, ATF/CREB, or the calcium-activated factor NF-AT.
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