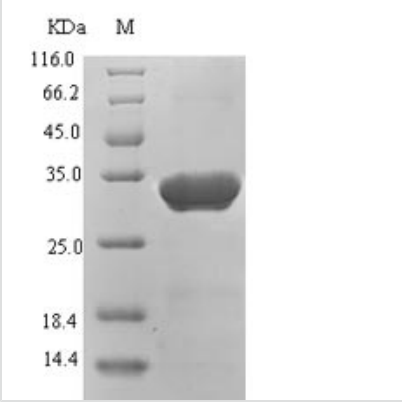
Recombinant Hepatitis B virus genotype D subtype ayw Protein X (X)

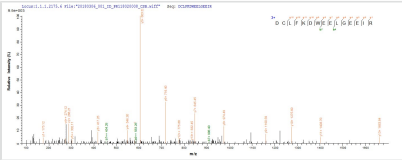
Product Code	CSB-EP355969HEM
Relevance	Multifunctional protein that may modulate protein degradation pathways, apoptosis, transcription, signal transduction, cell cycle progress, and genetic stability by directly or indirectly interacting with hosts factors. Does not seem to be essential for HBV infection. 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. By binding to human DDB1, may affect cell viability and stimulate genome replication. May induce apoptosis by localizing in mitochondria and causing loss of mitochondrial membrane potential. May also modulate apoptosis by binding human CFLAR, a key regulator of the death-inducing signaling complex (DISC). 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. May bind bZIP transcription factors like CREB1
Abbreviation	Recombinant Hepatitis B virus genotype D subtype ayw protein X
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P03165
Alias	HBx Peptide X pX
Product Type	Recombinant Protein
Immunogen Species	Hepatitis B virus genotype D subtype ayw (isolate France/Tiollais/1979) (HBV-D)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAARLCCQLDPARDVLCLRPVGAESRGRPFSGSLGTLSSPSPSAVPTDHGAH LSLRGLPVCAFSSAGPCALRFTSARRMETTVNAHQILPKVLHKRTLGLSAMST TDLEAYFKDCLFKDWEELGEEIRLKVFVLGGCRHKLVCAPAPCNFFTSA
Research Area	Others
Source	E.coli
Target Names	X
Expression Region	1-154aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged

Mol. Weight	32.6kDa
Protein Length	Full Length

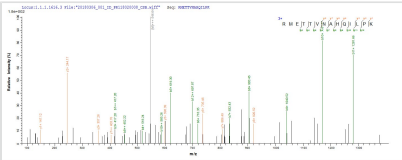
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP355969HEM could indicate that this peptide derived from E.coli-expressed Hepatitis B virus genotype D subtype ayw (isolate France/Tiollais/1979) (HBV-D) X.



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Description

In the general approach to express the recombinant Hepatitis B virus genotype D subtype ayw (isolate France/Tiollais/1979) Protein X, a plasmid encoding the Hepatitis B virus genotype D subtype ayw (isolate France/Tiollais/1979) Protein X (1-154aa) is first constructed. The constructed plasmid is then introduced into e.coli cells. Plasmid-containing e.coli cells are screened and cultured under conditions that induce the protein expression. The protein is fused with a N-terminal 6xHis-SUMO tag. Lysing the cultured cells and purifying the resulting recombinant Protein X through affinity purification. The SDS-PAGE analysis is conducted to confirm the presence of the recombinant Protein X and assess its purity. Its purity is over 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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of lyophilized form is 12 months at -20°C/-80°C.