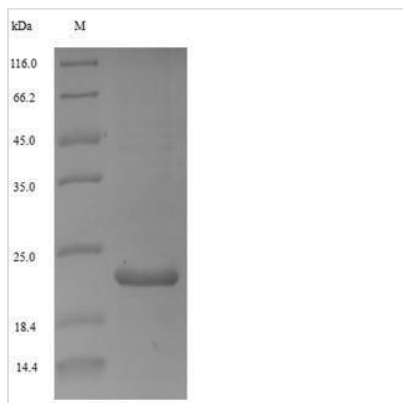




Recombinant Woodchuck hepatitis B virus Protein X (X)

Product Code	CSB-EP323774WAW
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. Effect on apoptosis is controversial depending on the cell types in which the studies have been conducted
Abbreviation	Recombinant Woodchuck hepatitis B virus 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.	P17401
Alias	HBx Peptide X pX
Product Type	Recombinant Protein
Immunogen Species	Woodchuck hepatitis B virus (isolate 8) (WHV)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAARLCCHLDSARDVLLLRPFQSSGPSFPRPAAGSAASSASSPSPSDESD LPLGRLPACFASASGPCCLVFTCADLRTMDSTVNFVSWHANRQLGMPSKDL WTPYIKDQLLTKWEEGSIDPRLSIFVLGGCRHKCMRLL
Research Area	Microbiology
Source	E.coli
Target Names	X
Expression Region	1-141aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	19.2kDa
Protein Length	Full Length
Image	



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

Description

The process of expressing the recombinant Woodchuck hepatitis B virus Protein X (X) protein in the E.coli requires the recombinant DNA gene formed by the integration of encoding gene for the 1-141aa of the Woodchuck hepatitis B virus Protein X (X) protein and N-terminal 6xHis tag sequence, the expression vector that the recombinant DNA gene inserts into, the E.coli that provided the necessary macromolecules and components for transcription and translation of the cloned expression vector. After isolation and purification, this N-terminal 6xHis-tagged recombinant Protein X (X) protein was obtained. This recombinant Protein X (X) protein is characterized by high purity (>90%, SDS-PAGE). This Protein X (X) protein ran along the gel to the band of approximately 21 kDa molecular weight.

Protein X (also known as peptide X) is a protein encoding by a gene named X in Woodchuck hepatitis B virus. Protein X has no counterparts in any of its hosts and is conserved among mammalian hepadnavirus. This protein is well known for its transactivation activity through interaction with several cellular transcription factors, In addition to its role in viral replication and chromosomal instability, it is also known as an oncogene involving in modulating oncogenic pathways, oxidative stress, DNA methylation, angiogenesis and migration.

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

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.