



Protein X, Recombinant, Hepatitis B Virus genotype D, aa1-154, His-SUMO-Tag (X)

Catalog number

374885

Supplier

United States Biological

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 (By similarity).

Source

Recombinant protein corresponding to aa1-154 from hepatitis B virus genotype D Protein X, fused to His-SUMO-Tag at N-terminal. expressed in E. coli.

Molecular Weight

~32.7kD

AA Sequence

MAARLCCQLDPARDVLCLRPVGAESRGRPFSGPFGTLSSPSPSAVSTDHGAHLSLRGLPVCAFSSAGPCALRFTSARRMETTVNAHQFLPKVLYKRTLGLSVMSTTDLEAYFKDCLFKDWEELGEETRLMIFVLGGCRHKLVCAPAPCNFFTS
A

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in Tris-HCl, pH 8.0, 1mM EDTA, 50% glycerol.

Purity

≥90% (SDS-PAGE)

Grade

Purified

Storage

For in vitro research use only, not for human or veterinary diagnostic or medical use

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-20°C

MW

32.7

Antigen Modification

Recombinant, E. coli

Reference

1. "Analysis of hepatitis B virus populations in an interferon-alpha-treated patient reveals predominant mutations in the C-gene and changing e-antigenicity." Gunther S., Paulij W., Meisel H., Will H. *Virology* 244:146-160(1998).