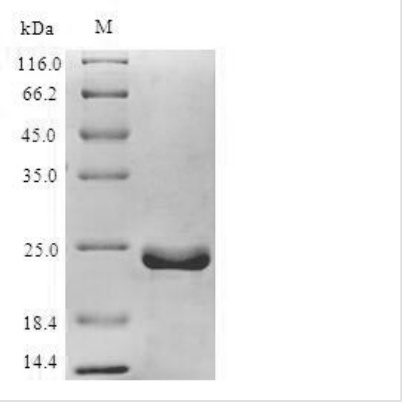
Recombinant Epstein-Barr virus Apoptosis regulator BHRF1 (BHRF1), partial

Product Code	CSB-EP314488EFC
Relevance	Prevents premature death of the host cell during virus production, which would otherwise reduce the amount of progeny virus. Acts as a host B-cell leukemia/lymphoma 2 (Bcl-2) homolog, and interacts with pro-apoptotic proteins to prevent mitochondria permeabilization, release of cytochrome c and subsequent apoptosis of the host cell.
Abbreviation	Recombinant Epstein-Barr virus BHRF1 protein, partial
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.	P03182
Alias	Early antigen protein R
Product Type	Recombinant Protein
Immunogen Species	Epstein-Barr virus (strain B95-8) (HHV-4) (Human herpesvirus 4)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAYSTREILLALCIRDSRVHGNGTLHPVLELAARETPLRLSPEDTVVLRYHVLLEEIIERNSETFTETWNRFITHTEHVDLDFNSVFLEIFHRGDPSLGRALAWMAWCMHACRTLCCNQSTPYYVVDLSVRGMLEASEGLDG
Research Area	others
Source	E.coli
Target Names	BHRF1
Protein Names	Recommended name: Apoptosis regulator BHRF1Alternative name(s): Early antigen protein R Short name= EA-R Nuclear antigen
Expression Region	1-142aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged
Mol. Weight	19.8kDa
Protein Length	Partial
Image	



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

Description

The expression region of this recombinant Epstein-Barr virus BHRF1 covers amino acids 1-142. The expected molecular weight for the BHRF1 protein is calculated to be 19.8 kDa. This protein is generated in a e.coli-based system. The N-terminal 10xHis tag was smoothly integrated into the coding gene of BHRF1, which enables a simple process of detecting and purifying the BHRF1 recombinant protein in the following steps.

The Epstein-Barr virus (EBV) apoptosis regulator BHRF1 is a homolog of the cellular Bcl-2 protein, which plays a crucial role in regulating apoptosis and inhibiting the intrinsic apoptotic pathway. Similarly, BHRF1 functions as an anti-apoptotic protein in EBV-infected cells. By interacting with pro-apoptotic factors and preventing mitochondrial outer membrane permeabilization, BHRF1 helps the virus evade the host immune response and establish persistent infections. It is particularly involved in blocking the apoptotic response induced by various cellular stress signals, contributing to the survival of infected cells. Understanding the mechanisms employed by BHRF1 in modulating apoptosis is crucial for elucidating the pathogenesis of EBV-associated diseases and may have implications for the development of antiviral strategies.

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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