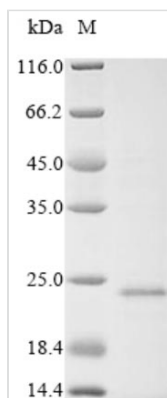




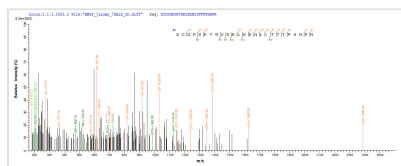
Recombinant Chicken anemia virus Apoptin (VP3)

Product Code	CSB-EP346512CIF
Relevance	May act as transcriptional regulator. Induces apoptosis in infected cells. Element of infectious replication cycle.
Abbreviation	Recombinant Chicken anemia virus VP3 protein
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.	P54095
Product Type	Recombinant Protein
Immunogen Species	Chicken anemia virus (isolate USA 26p4) (CAV)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNALQEDTPPGPSTVFRPPTSSRPLETPHCEIRIGIAGITITLSLCGCANARAPT LRSATADSSESTGFKNAPDLRTDQPKPPSKKRSCDPSEYRVSELKENLITTP SRPRTARRCIRL
Research Area	Microbiology
Source	E.coli
Target Names	VP3
Protein Names	Recommended name: Apoptin
Expression Region	1-120aa
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	17.1kDa
Protein Length	Full Length

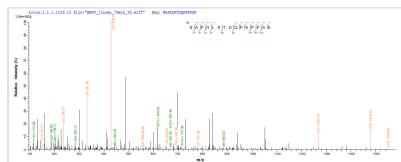
Image



(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-EP346512CIF could indicate that this peptide derived from E.coli-expressed Chicken anemia virus (isolate USA 26p4) (CAV) VP3.



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Description

The expression vector recombined with the recombinant DNA was transformed into the E.coli for expression. The recombinant DNA resulted from the fusion of the gene coding for the 1-120aa of the chicken anemia virus VP3 protein and the N-terminal 6xHis tag gene. The product was purified and isolated to get the recombinant chicken anemia virus VP3 protein with N-terminal 6xHis tag. The purity of this recombinant VP3 protein reaches up to 90%. Under SDS-PAGE condition, this recombinant VP3 protein showed a band with a molecular weight of about 20 kDa on the gel. It may be used in the microbiology studies.

VP3 is a gene encoding a protein named chicken anemia virus Apoptin (abbreviated Apoptin) and belongs gyrovirus apoptin family. This protein is 121 amino acids in length and has a mass of 13.6 kDa and contains a bipartite C-terminal nuclear localization signal (NLS) from residues 82–88 and 111–121, which permits its translocation to the nucleus in a cell-type-specific manner. Apoptin infects the thymocytes and erythroblasts in young chickens, causing chicken infectious anemia and immunosuppression. Apoptin has subsequently been shown to induce apoptosis in many human cancer cell lines in a manner that is independent of p53. Apoptin's tumor-cell killing ability has generated significant interest for its potential in anticancer therapy, and indeed apoptin has been investigated extensively in a wide range of human tumor cell.

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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