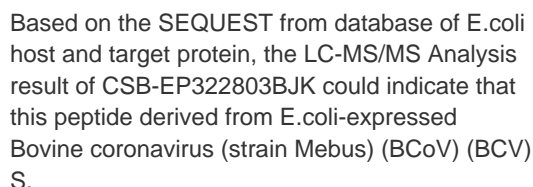
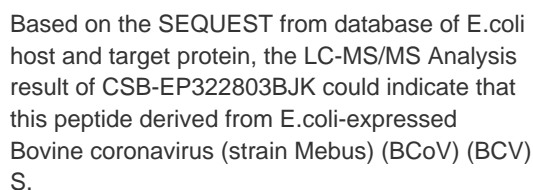
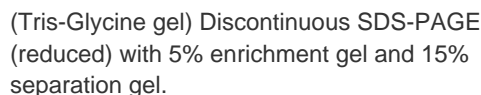




# Recombinant Bovine coronavirus Spike glycoprotein (S), partial

<b>Product Code</b>	CSB-EP322803BJK
<b>Relevance</b>	S1 attaches the virion to the cell membrane by binding to 9-O-acetylated sialic acid containing proteins, initiating the infection. S2 is a class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes
<b>Abbreviation</b>	Recombinant Bovine coronavirus S protein, partial
<b>Storage</b>	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.
<b>Uniprot No.</b>	P15777
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bovine coronavirus (strain Mebus) (BCoV) (BCV)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	PNLPDCNIEAWLNDKSVPSPLNWERKTFSNCFNMSSLMSFIQADSFTCNNID AAKIYGMCFSSITIDKFAIPNGRKVDLQLGNLGYLQSFNYRIDTTATSCQLYYNL PAANVSVSFRFNPSTWNRRFGFTEQFVFKPQPVGVFTHHDVVYAQHCFKAPS NFCPCCKLDGSLCVGNPGIDAGYKNSGIGTCTPAGTNYLTCHNAAQCNCCLCTP DPIT
<b>Research Area</b>	Microbiology
<b>Source</b>	E.coli
<b>Target Names</b>	S
<b>Protein Names</b>	E2 Peplomer protein
<b>Expression Region</b>	326-540aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged
<b>Mol. Weight</b>	27.2 kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



E.coli-expressed bovine coronavirus (BCoV) spike glycoprotein (S) CSB-CSB-EP322803BJK is a recombinant fusion protein of partial BCoV-S (326-540AA) coupled to a 10xHis-tag at the N-terminus. This protein is calculated molecular weight of 11.9 kDa. It was validated by the LC-MS/MS analysis. The SDS-PAGE showed an about 30 kDa molecular weight of this protein and determined the purity of over 85%. This recombinant BCoV-S protein is in-stock now.

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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