

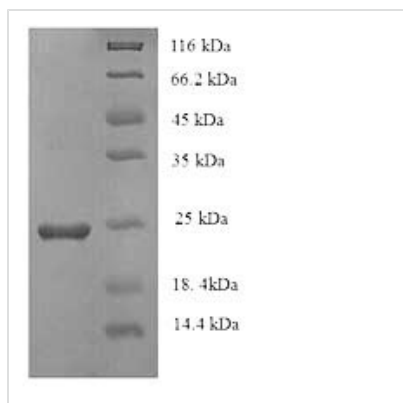


# Recombinant Bovine coronavirus Spike glycoprotein(S),partial

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-YP333052BJO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Relevance</b>         | S1 attaches the virion to the cell mbrane 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 hairpin state. During viral and target cell mbrane 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 mbranes . |
| <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>       | P25194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>    | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Alias</b>             | E2;Peplomer protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>           | Bovine coronavirus (strain vaccine) (BCoV) (BCV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sequence</b>          | PNLPDCNIEAWLNDKSVPSPLNWERKTFSNCFNMSSLMSFIQADSFTCNNIE<br>AAKIYGMCFSSITIDKFAIPNGRKVDLQLGNLGYLQSFNYRIDTTAASCQLYYNL<br>PAANVSVSRFNPSTWNRFRGFTEQSVFKPQPVGVFTHHDVVYAQHCFKAPT<br>NFCPCKLDGSLCVGNPGIDAGYKNSGIGTCPAGTNYLTCHNAAQCDCCLCTP<br>DPIT                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Research Area</b>     | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Names</b>        | S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Names</b>     | Recommended name: Spike glycoprotein Short name= S glycoprotein<br>Alternative name(s): E2 Peplomer protein Cleaved into the following 2 chains: 1.<br>Spike protein S1 Alternative name(s): 90B Spike protein S2 Alternative name(s):                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Mol. Weight</b>       | 25.7kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |


**Protein Description**

Partial

**Image**


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